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Standard Switching Power Supply Manufacturer



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## AC-DC Enclosed

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# LRS/SE Series

## 35~1500W Low profile Single Output Enclosed Type



LRS-35~200



LRS-350~1200



SE-1500



LRS Spec



SE Spec

## LRS Features

- Withstand 300VAC surge input for 5 sec
- **1U low profile (30~41mm)**
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short circuit/Overload/Over voltage/Over temp.(LRS-150~1200)
- Cooling by free air convection (LRS-35~200)
- **Up to 200% peak power capability (LRS-100N2/200N2/350N2/600N2)**
- Forced air cooling by built-in DC fan (350~600W)
- Operating altitude up to 5000 meters
- Long MTBF, 1500k~3300k hrs all series
- LED indicator for power on
- 3 years warranty

## SE Features

- Protections: Short circuit/Overload/Over voltage/Over temp.
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- DC OK signal output, remote ON-OFF control
- LED indicator for power on
- 2 years warranty

## Models



| Model No.      | LRS-35      | LRS-50       | LRS-75      | LRS-100     | LRS-100N2   | LRS-150F     | LRS-150              | LRS-200     |
|----------------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|-------------|
| Vin            | 85~264VAC   | 85~264VAC    | 85~264VAC   | 85~264VAC   | 85~264VAC   | 85~264VAC    | 115/230VAC by switch |             |
| Vout /Iout     | 5V, 0~7A    | 3.3V, 0~10A  | 5V, 0~14A   | 3.3V, 0~20A | 12V, 0~8.5A | 5V, 0~22A    | 12V, 0~12.5A         | 3.3V, 0~40A |
|                | 12V, 0~3A   | 5V, 0~10A    | 12V, 0~6A   | 5V, 0~18A   | 24V, 0~4.5A | 12V, 0~12.5A | 15V, 0~10A           | 4.2V, 0~40A |
|                | 15V, 0~2.4A | 12V, 0~4.2A  | 15V, 0~5A   | 12V, 0~8.5A | 36V, 0~2.8A | 15V, 0~10A   | 24V, 0~6.5A          | 5V, 0~40A   |
|                | 24V, 0~1.5A | 15V, 0~3.4A  | 24V, 0~3.2A | 15V, 0~7A   | 48V, 0~2.3A | 24V, 0~6.5A  | 36V, 0~4.3A          | 12V, 0~17A  |
|                | 36V, 0~1A   | 24V, 0~2.2A  | 36V, 0~2.1A | 24V, 0~4.5A |             | 36V, 0~4.3A  | 48V, 0~3.3A          | 15V, 0~14A  |
|                | 48V, 0~0.8A | 36V, 0~1.45A | 48V, 0~1.6A | 36V, 0~2.8A |             | 48V, 0~3.3A  |                      | 24V, 0~8.8A |
|                |             | 48V, 0~1.1A  |             | 48V, 0~2.3A |             |              |                      | 36V, 0~5.9A |
| Dimension (mm) | 99x82x30    |              | 99x97x30    | 129x97x30   |             | 159x97x30    |                      | 215x115x30  |

| Model No.      | LRS-200N2            | LRS-350      | LRS-350N2    | LRS-450      | LRS-600      | LRS-600N2    | LRS-1200     | SE-1500        |
|----------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| Vin            | 115/230VAC by switch |              |              |              |              |              | 180~305VAC   | 180~264VAC     |
| Vout /Iout     | 12V, 0~17A           | 3.3V, 0~60A  | 12V, 0~29A   | 5V, 0~75A    | 5V, 0~100A   | 12V, 0~50A   | 12V, 0~92A   | 5V, 0~300A     |
|                | 24V, 0~8.8A          | 4.2V, 0~60A  | 24V, 0~14.6A | 12V, 0~37.5A | 12V, 0~50A   | 24V, 0~25A   | 24V, 0~50A   | 12V, 0~125A    |
|                | 36V, 0~5.9A          | 5V, 0~60A    | 36V, 0~9.7A  | 15V, 0~30A   | 15V, 0~40A   | 36V, 0~16.6A | 36V, 0~33.3A | 15V, 0~100A    |
|                | 48V, 0~4.4A          | 12V, 0~29A   | 48V, 0~7.3A  | 24V, 0~18.8A | 24V, 0~25A   | 48V, 0~12.5A | 48V, 0~25A   | 24V, 0~62.5A   |
|                |                      | 15V, 0~23.2A |              | 36V, 0~12.5A | 27V, 0~22.2A |              |              | 27V, 0~55.6A   |
|                |                      | 24V, 0~14.6A |              | 48V, 0~9.4A  | 36V, 0~16.6A |              |              | 48V, 0~31.3A   |
|                |                      | 36V, 0~9.7A  |              |              | 48V, 0~12.5A |              |              |                |
| Dimension (mm) | 215x115x30           | 215x115x30   |              | 225x124x35   | 225x124x41   |              | 225x124x41   | 278x177.8x63.5 |

RS-150  
RD/ID/T/Q-125RS-100  
RD/ID/T/Q-85RS-75  
RD/ID/T/Q-65RS-50  
RD/ID/T/Q-50RS-35  
RD-35

RS-25

RS-15



Spec

## Features

- Universal full range input: 88~264 VAC
- All using 105°C long life electrolytic capacitors
- Protections: Short circuit / Overload / Over voltage / Over temp. (RS-15)
- Withstand 300VAC surge input for 5 sec.
- Withstand 5G vibration
- High operating temperature up to 70°C
- Miniature size
- Cooling by free air convection
- LED indicator for power on
- 3 years warranty

## Models

### Single Output



| Model No.      | RS-15         | RS-25        | RS-35       | RS-50       | RS-75       | RS-100      | RS-150       |
|----------------|---------------|--------------|-------------|-------------|-------------|-------------|--------------|
| Vout /Iout     | 3.3V, 0~3A    | 3.3V, 0~6A   | 3.3V, 0~7A  | 3.3V, 0~10A | 3.3V, 0~15A | 3.3V, 0~20A | 3.3V, 0~30A  |
|                | 5V, 0~3A      | 5V, 0~5A     | 5V, 0~7A    | 5V, 0~10A   | 5V, 0~12A   | 5V, 0~16A   | 5V, 0~26A    |
|                | 12V, 0~1.3A   | 12V, 0~2.1A  | 12V, 0~3A   | 12V, 0~4.2A | 12V, 0~6A   | 12V, 0~8.5A | 12V, 0~12.5A |
|                | 15V, 0~1A     | 15V, 0~1.7A  | 15V, 0~2.4A | 15V, 0~3.4A | 15V, 0~5A   | 15V, 0~7.0A | 15V, 0~10A   |
|                | 24V, 0~0.625A | 24V, 0~1.1A  | 24V, 0~1.5A | 24V, 0~2.2A | 24V, 0~3.2A | 24V, 0~4.5A | 24V, 0~6.5A  |
|                | 48V, 0~0.313A | 48V, 0~0.57A | 48V, 0~0.8A | 48V, 0~1.1A | 48V, 0~1.6A | 48V, 0~2.3A | 48V, 0~3.3A  |
| Dimension (mm) | 62.5x51x28    | 78x51x28     | 99x82x36    | 99x97x36    | 129x98x38   | 159x97x38   | 199x98x38    |

### Dual Output

| Model No.      | Output Number | RD-35A    | RD-35B      | RD-3513        | RD-50A    | RD-50B    |
|----------------|---------------|-----------|-------------|----------------|-----------|-----------|
| Vout /Iout     | CH1           | 5V, 0~4A  | 5V, 0~4A    | 13.5V, 0~2A    | 5V, 0~6A  | 5V, 0~6A  |
|                | CH2           | 12V, 0~1A | 24V, 0~1.3A | -13.5V, 0~1.5A | 12V, 0~3A | 24V, 0~2A |
| Dimension (mm) |               | 99x82x36  |             |                | 99x97x36  |           |

| Model No.      | Output Number | RD-65A    | RD-65B    | RD-85A    | RD-85B      | RD-125A    | RD-125B   |
|----------------|---------------|-----------|-----------|-----------|-------------|------------|-----------|
| Vout /Iout     | CH1           | 5V, 0~8A  | 5V, 0~8A  | 5V, 0~10A | 5V, 0~10A   | 5V, 0~15A  | 5V, 0~10A |
|                | CH2           | 12V, 0~4A | 24V, 0~3A | 12V, 0~5A | 24V, 0~2.5A | 12V, 0~10A | 24V, 0~5A |
| Dimension (mm) |               | 129x98x38 |           | 159x97x38 |             | 199x98x38  |           |

Note: Output isolation model available: RID-50/65/85 series (Please refer to the specification for details)

# G3 Series

## 15~150W Miniwatt Multi-Output Enclosed Type



RT-125  
RQ-125

RT-85  
RQ-85

RT-65  
RQ-65

RT-50  
RQ-50



Spec

## Models

### Dual Output



| Model No.      | Output Number | RD-125-1224 | RD-125-2412 | RD-125-1248 | RD-125-4812 |
|----------------|---------------|-------------|-------------|-------------|-------------|
| Vout / Iout    | CH1           | 12V, 0~7A   | 24V, 0~5A   | 12V, 0~7A   | 48V, 0~2.5A |
|                | CH2           | 24V, 0~5A   | 12V, 0~7A   | 48V, 0~2.5A | 12V, 0~7A   |
| Dimension (mm) |               | 199x98x38   |             |             |             |

| Model No.      | Output Number | RD-125-2448 | RD-125-4824 | RD-125-1205  | RD-125-2405 |
|----------------|---------------|-------------|-------------|--------------|-------------|
| Vout / Iout    | CH1           | 24V, 0~4A   | 48V, 0~2.5A | 12V, 0~10.5A | 24V, 0~5.3A |
|                | CH2           | 48V, 0~2.5A | 24V, 0~4A   | 5V, 0~3A     | 5V, 0~3A    |
| Dimension (mm) |               | 199x98x38   |             |              |             |

Note: Output isolation model available: RID-125 series (Please refer to the specification for details)

### Quad Output

| Model No.      | Output Number | RQ-50B      | RQ-50C      | RQ-50D      | RQ-65B     | RQ-65C     | RQ-65D      |
|----------------|---------------|-------------|-------------|-------------|------------|------------|-------------|
| Vout / Iout    | CH1           | 5V, 0~6A    | 5V, 0~6A    | 5V, 0~6A    | 5V, 0~8A   | 5V, 0~8A   | 5V, 0~8A    |
|                | CH2           | 12V, 0~1.5A | 15V, 0~1.5A | 12V, 0~1.5A | 12V, 0~3A  | 15V, 0~3A  | 12V, 0~3A   |
|                | CH3           | -5V, 0~1A   | -5V, 0~1A   | 24V, 0~1A   | -5V, 0~1A  | -5V, 0~1A  | 24V, 0~1.5A |
|                | CH4           | -12V, 0~1A  | -15V, 0~1A  | -12V, 0~1A  | -12V, 0~1A | -15V, 0~1A | -12V, 0~1A  |
| Dimension (mm) |               | 99x97x36    |             |             | 129x98x38  |            |             |

| Model No.      | Output Number | RQ-85B     | RQ-85C     | RQ-85D      | RQ-125B     | RQ-125C    | RQ-125D     |
|----------------|---------------|------------|------------|-------------|-------------|------------|-------------|
| Vout / Iout    | CH1           | 5V, 0~10A  | 5V, 0~10A  | 5V, 0~10A   | 5V, 0~12A   | 5V, 0~12A  | 5V, 0~12A   |
|                | CH2           | 12V, 0~4A  | 15V, 0~4A  | 12V, 0~4A   | 12V, 0~4.5A | 15V, 0~4A  | 12V, 0~4A   |
|                | CH3           | -5V, 0~1A  | -5V, 0~1A  | 24V, 0~1.5A | -5V, 0~1A   | -5V, 0~1A  | 24V, 0~2.5A |
|                | CH4           | -12V, 0~1A | -15V, 0~1A | -12V, 0~1A  | -12V, 0~1A  | -15V, 0~1A | -12V, 0~1A  |
| Dimension (mm) |               | 159x97x38  |            |             | 199x98x38   |            |             |

Note: Triple output models: RT-50/65/85/125 have no -5V or -12V (Please refer to the specification for details)



## 75~500W Low/Medium Power Enclosed Type with PFC

## RSP Series



Spec

## Features

- Universal full range input: 90~264 VAC
- Active PFC function
- 1U Low profile
- Cooling by free air convection (RSP-75~200)
- Forced air cooling by built-in DC fan(RSP-320/500)
- Built-in constant current limiting circuit (RSP-75/100/150)
- Remote ON/OFF control(RSP-75/100/150/500)
- Remote sense/DC OK signal(RSP-500)
- LED indicator for power on
- Protections: Short circuit/Overload/Over voltage/Over temp.
- 3 years warranty

## Models



| Model No.      | RSP-75        | RSP-100       | RSP-150        | RSP-200        | RSP-320        | RSP-500      |
|----------------|---------------|---------------|----------------|----------------|----------------|--------------|
| Vout / Iout    | 3.3V, 0~15A   | 3.3V, 0~20A   | 3.3V, 0~30A    | 2.5V, 0~40A    | 2.5V, 0~60A    | 3.3V, 0~90A  |
|                | 5V, 0~15A     | 5V, 0~20A     | 5V, 0~30A      | 3.3V, 0~40A    | 3.3V, 0~60A    | 4V, 0~90A    |
|                | 7.5V, 0~10A   | 7.5V, 0~13.5A | 7.5V, 0~20A    | 4V, 0~40A      | 4V, 0~60A      | 5V, 0~90A    |
|                | 12V, 0~6.3A   | 12V, 0~8.5A   | 12V, 0~12.5A   | 5V, 0~40A      | *5V, 0~60A     | 12V, 0~41.7A |
|                | 13.5V, 0~5.6A | 13.5V, 0~7.5A | 13.5V, 0~11.2A | 7.5V, 0~26.7A  | 7.5V, 0~40A    | 15V, 0~33.4A |
|                | 15V, 0~5A     | 15V, 0~6.7A   | 15V, 0~10A     | 12V, 0~16.7A   | 12V, 0~26.7A   | 24V, 0~21A   |
|                | 24V, 0~3.2A   | 24V, 0~4.2A   | 24V, 0~6.3A    | 13.5V, 0~14.9A | 13.5V, 0~23.8A | 27V, 0~18.6A |
|                | 27V, 0~2.8A   | 27V, 0~3.8A   | 27V, 0~5.6A    | 15V, 0~13.4A   | 15V, 0~21.4A   | 48V, 0~10.5A |
|                | 48V, 0~1.6A   | 48V, 0~2.1A   | 48V, 0~3.2A    | 24V, 0~8.4A    | 24V, 0~13.4A   |              |
|                |               |               |                | 27V, 0~7.5A    | 27V, 0~11.9A   |              |
|                |               |               |                | 36V, 0~5.56A   | 36V, 0~8.9A    |              |
|                |               |               |                | 48V, 0~4.2A    | 48V, 0~6.7A    |              |
| Dimension (mm) | 159x97x30     | 179x99x30     | 199x99x30      | 215x115x30     | 215x115x30     | 230x127x40.5 |

\* RSP-320-5CC with conformal coating is suitable for LED moving sign applications, MOQ required.

# RSP Series 750~3200W High Power Enclosed Type with PFC



RSP-2400/3000

RSP-1600

RSP-1500

RSP-2000

RSP-1000

RSP-750



Spec

## Features

- 1U low profile(41mm): RSP-750/1000/1600/2000
- Active PFC function
- Forced air cooling by built-in DC fan
- High power density up to 25W/in<sup>3</sup>(RSP-1600)
- Output voltage programmable, Widest up to 40~125%
- Constant current level programmable (RSP-750/1600 only)
- Built-in current sharing up to 3 units (RSP-2400/3000), 4 units (RSP-1000/1500/2000) or 6 units (RSP-1600)
- Built-in remote sense & remote ON/OFF control
- Built-in auxiliary power, DC OK signal output
- OTP alarm signal output (RSP-1600/2000)
- Optional conformal coating
- Protections: Short circuit/Overload/Over voltage/Over temp.
- 5 years warranty

## Models



| Model No.      | RSP-750      | RSP-1000   | RSP-1500     | RSP-1600     |
|----------------|--------------|------------|--------------|--------------|
| Vin            | 90~264VAC    | 90~264VAC  | 90~264VAC    | 90~264VAC    |
| Vout / Iout    | 5V, 0~100A   | 12V, 0~60A | 5V, 0~240A   | 12V, 0~125A  |
|                | 12V, 0~62.5A | 15V, 0~50A | 12V, 0~125A  | 24V, 0~67A   |
|                | 15V, 0~50A   | 24V, 0~40A | 15V, 0~100A  | 27V, 0~59A   |
|                | 24V, 0~31.3A | 27V, 0~37A | 24V, 0~63A   | 36V, 0~44.5A |
|                | 27V, 0~27.8A | 48V, 0~21A | 27V, 0~56A   | 48V, 0~33.5A |
|                | 48V, 0~15.7A |            | 48V, 0~32A   |              |
| Dimension (mm) | 250x127x41   | 295x127x41 | 278x127x83.5 | 300x85x41    |

| Model No.      | RSP-2000    | RSP-2400       | RSP-3000       |
|----------------|-------------|----------------|----------------|
| Vin            | 90~264VAC   | 180~264VAC     | 180~264VAC     |
| Vout / Iout    | 12V, 0~100A | 12V, 0~166.7A  | 12V, 0~200A    |
|                | 24V, 0~80A  | 24V, 0~100A    | 24V, 0~125A    |
|                | 48V, 0~42A  | 48V, 0~50A     | 48V, 0~62.5A   |
| Dimension (mm) | 295x127x41  | 278x177.8x63.5 | 278x177.8x63.5 |



**NEW****75~750W High-Reliability Compact Size  
Enclosed Type Power With PFC****NSP Series**

NSP-75

NSP-100

NSP-150

NSP-200

NSP-320

NSP-500

NSP-750



Spec

## Features

- Universal full range input : 85~305VAC
- Active PFC function
- No load power consumption <0.5W~0.75W
- Global certificates in multi-fields (ITE 62368-1, Medical 60601-1, Household 60335-1, Industrial 61558-1/2-16/61010-1, Energy converter 62477-1, and SEMI F47)
- -40~+85°C wide range operation temperature
- 200% peak power capability(12~60V models)
- High efficiency up to 95%
- Forced air cooling by built-in DC fan with noise <40~45dB (320~750W)
- Built-in remote ON/OFF control
- Remote Sense/ DC OK signal (320~750W)
- Protections: Short circuit/Overload /Over voltage/ Over temp.
- Over voltage category III (OVC III)
- Operating altitude up to 5000 meters
- PCB conformal coating
- 5 years warranty

## Models



| Model No.      | NSP-75      | NSP-100       | NSP-150      | NSP-200       |
|----------------|-------------|---------------|--------------|---------------|
| Vout / Iout    | 5V, 0~1.5A  | 5V, 0~2.0A    | 5V, 0~3.0A   | 5V, 0~4.0A    |
|                | 12V, 0~6.3A | 7.5V, 0~13.4A | 7.5V, 0~20A  | 7.5V, 0~26.8A |
|                | 15V, 0~5A   | 12V, 0~8.5A   | 12V, 0~12.5A | 12V, 0~16.7A  |
|                | 24V, 0~3.2A | 15V, 0~6.7A   | 15V, 0~10A   | 15V, 0~13.4A  |
|                | 27V, 0~2.8A | 24V, 0~4.2A   | 24V, 0~6.3A  | 24V, 0~8.4A   |
|                | 36V, 0~2.1A | 27V, 0~3.7A   | 27V, 0~5.6A  | 27V, 0~7.4A   |
|                | 48V, 0~1.6A | 36V, 0~2.8A   | 36V, 0~4.2A  | 36V, 0~5.6A   |
|                | 60V, 0~1.3A | 48V, 0~2.1A   | 48V, 0~3.15A | 48V, 0~4.2A   |
|                |             | 60V, 0~1.7A   | 60V, 0~2.55A | 60V, 0~3.36A  |
| Dimension (mm) | 99x97x30    | 99x97x30      | 129x97x30    | 159x97x30     |

| Model No.      | NSP-320      | NSP-500      | NSP-750      |
|----------------|--------------|--------------|--------------|
| Vout / Iout    | 5V, 0~6.0A   | 5V, 0~9.0A   | 5V, 0~10.0A  |
|                | 7.5V, 0~4.0A | 12V, 0~41.7A | 12V, 0~62.5A |
|                | 12V, 0~26.7A | 15V, 0~44.4A | 15V, 0~50A   |
|                | 15V, 0~21.4A | 24V, 0~21A   | 24V, 0~31.3A |
|                | 24V, 0~13.4A | 27V, 0~18.6A | 27V, 0~27.8A |
|                | 27V, 0~11.9A | 36V, 0~13.9A | 36V, 0~20.9A |
|                | 36V, 0~8.9A  | 48V, 0~10.5A | 48V, 0~15.7A |
|                | 48V, 0~6.7A  | 60V, 0~8.4A  | 60V, 0~12.6A |
|                | 60V, 0~5.4A  |              |              |
| Dimension (mm) | 179x99x30    | 199x99x41    | 199x105x41   |

※ The new NSP series outperforms the RSP series with enhanced features,  
For new projects, please adopt the NSP series.

# NSP Series

1000~3200W High-Reliability Compact Size  
Enclosed Type Power With PFC



NSP-1000



NSP-1600



NSP-2400



NSP-3200



Spec

## 1000/2400 Features **NEW**

- Universal full range input : 85~305VAC
- Active PFC function
- Global certificates in multi-fields(ITE 62368-1, Medical 60601-1, Household 60335-1, Industrial 61558-1/2-16/61010-1, Energy converter 62477-1, and SEMI F47)
- -40~+85°C wide range operation temperature
- 200% peak power capability
- Can be used in parallel (3+1)
- Output voltage 0~120% and output current 0~100% programmable
- Built-in CANBus (MODBus by request)
- 5Vaux & 12Vaux Auxiliary Power Output
- Built-in DC fan with noise <45dB and fan speed control
- Built-in remote ON/OFF control
- Remote ON/OFF / Remote Sense / DC OK Signal
- Over voltage category III(OVC III)
- Operating altitude up to 5000 meters
- PCB conformal coating
- 5 years warranty

## 1600/3200 Features

- Universal full range input : 90~264VAC
- Active PFC function
- Built-in CANBus
- Output voltage programmable: Widest up to 40~125%
- Built-in intelligent fan speed control
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Built-in remote ON-OFF control/remote sense/auxiliary power
- DC OK signal/ OTP alarm signal
- 5 years warranty

## Models



CB



cULus



(by request)

| Model No.      | NSP-1000     | NSP-2400     |
|----------------|--------------|--------------|
| Vout / Iout    | 12V, 0~83.4A | 12V, 0~200A  |
|                | 15V, 0~66.7A | 15V, 0~160A  |
|                | 24V, 0~41.7A | 24V, 0~100A  |
|                | 27V, 0~37A   | 27V, 0~88.8A |
|                | 36V, 0~27.8A | 36V, 0~66A   |
|                | 48V, 0~21A   | 48V, 0~50A   |
|                | 60V, 0~16.8A | 60V, 0~40A   |
| Dimension (mm) | 230x127x41   | 325.8x107x41 |



CB



cULus



| Model No.      | NSP-1600     | NSP-3200     |
|----------------|--------------|--------------|
| Vout / Iout    | 12V, 0~125A  | 24V, 0~133A  |
|                | 24V, 0~67A   | 48V, 0~67A   |
|                | 36V, 0~44.5A |              |
|                | 48V, 0~33.5A |              |
| Dimension (mm) | 300x85x41    | 325.8x107x41 |



DPU-3200



PHP-3500



Cold Plate for PHP-3500  
Optional  
(Order No: HS-656)



DPU Spec



PHP Spec

## ■ DPU-3200 Features

- Universal full range input: 90~264VAC
- High efficiency up to 94.5%
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Active current sharing up to 16000W (4+1)
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Optional PMBus or CANBus protocol
- PCB conformal coating (By request)
- 5 years warranty

## ■ PHP-3500 Features

- Universal full range input: 90~264VAC
- High efficiency up to 96%
- Fanless design, cooling by conduction or water conduction
- Slim and Low Profile (60 mm)
- Output voltage and constant current level programmable
- OVC III operating altitude up to 3000 meters
- Active current sharing up to 14000W (24V & 48V models)
- Built-in PMBus or CANBus
- Protections: Short circuit/Overload/Over voltage/Over temp.
- PCB conformal coating (By request)
- Optional cold plate
- 5 years warranty

## ■ Models



| Model No.      | DPU-3200     | PHP-3500     |
|----------------|--------------|--------------|
| Vout / Iout    | 24V, 0~133A  | 24V, 0~145A  |
|                | 48, 0~67A    | 48, 0~73A    |
| Dimension (mm) | 325.8x107x41 | 380x141.4x60 |

# PSP/PSPA Series

## Parallel Function Square Enclosed Type with PFC



PSP-600



PSPA-1000



PSP Spec



PSPA Spec

## Features

- Built-in active PFC function
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Forced air cooling by built-in DC fan
- With DC OK signal output
- Current sharing up to 2400W(PSP-600); 4000W (PSPA-1000)
- Built-in remote sense/remote ON-OFF control
- 3 years warranty (PSP-600)
- 5 years warranty (PSPA-1000)

## Models



| Model No.      | PSP-600        | PSPA-1000  |
|----------------|----------------|------------|
| Vin            | 88~264VAC      | 90~264VAC  |
| Vout / Iout    | 5V, 0~80A      | 12V, 0~80A |
|                | 12V, 0~50A     | 15V, 0~64A |
|                | 13.5V, 0~44.5A | 24V, 0~42A |
|                | 15V, 0~40A     | 48V, 0~21A |
|                | 24V, 0~25A     |            |
|                | 27V, 0~22.2A   |            |
|                | 48V, 0~12.5A   |            |
| Dimension (mm) | 170x120x93     | 170x120x93 |



HRP(G)-1000 HRP(G)-600 HRP(G)-450 HRP(G)-300 HRP(G)-200 HRP(G)-150 HRP-100 HRP-75



HRP Spec



HRP(G) Spec

## Features

- Withstand 300 VAC surge input for 5 sec.
- Built-in active PFC function
- Protections: Short circuit/Overload/Over voltage/Over temp.(Optional for HRP-75/HRP-100)
- Built-in constant current limiting circuit
- Built-in remote sense function (HRP-150)
- Stand by 5V@0.3A (HRPG Series)
- DC OK signal ( $\geq 200W$ )
- Current sharing function (HRPG-600-24/36/48,HRPG-1000)
- Cooling by free air convection ( $\leq 200W$ )
- Forced air cooling by built-in DC fan ( $\geq 300W$ )
- LED indicator for power on
- 5 years warranty

## Models



| Model No.      | HRP-75      | HRP-100       | HRP□-150    | HRP□-200      |
|----------------|-------------|---------------|-------------|---------------|
| Vin            | 85~264VAC   | 85~264VAC     | 85~264VAC   | 85~264VAC     |
| Vout / Iout    | 3.3V, 0~15A | 3.3V, 0~20A   | 3.3V, 0~30A | 3.3V, 0~40A   |
|                | 5V, 0~15A   | 5V, 0~17A     | 5V, 0~26A   | 5V, 0~35A     |
|                | 7.5V, 0~10A | 7.5V, 0~13.5A | 7.5V, 0~20A | 7.5V, 0~26.7A |
|                | 12V, 0~6.3A | 12V, 0~8.5A   | 12V, 0~13A  | 12V, 0~16.7A  |
|                | 15V, 0~5A   | 15V, 0~7A     | 15V, 0~10A  | 15V, 0~13.4A  |
|                | 24V, 0~3.2A | 24V, 0~4.5A   | 24V, 0~6.5A | 24V, 0~8.4A   |
|                | 36V, 0~2.1A | 36V, 0~2.9A   | 36V, 0~4.3A | 36V, 0~5.7A   |
|                | 48V, 0~1.6A | 48V, 0~2.2A   | 48V, 0~3.3A | 48V, 0~4.3A   |
| Dimension (mm) | 129x98x38   | 159x97x38     | 159x97x38   | 199x98x38     |

| Model No.      | HRP□-300    | HRP□-450     | HRP□-600     | HRPG-1000    |
|----------------|-------------|--------------|--------------|--------------|
| Vin            | 85~264V     | 85~264V      | 85~264V      | 90~264V      |
| Vout / Iout    | 3.3V, 0~60A | 3.3V, 0~90A  | 3.3V, 0~120A | 12V, 0~80A   |
|                | 5V, 0~60A   | 5V, 0~90A    | 5V, 0~120A   | 15V, 0~64A   |
|                | 7.5V, 0~40A | 7.5V, 0~60A  | 7.5V, 0~80A  | 24V, 0~42A   |
|                | 12V, 0~27A  | 12V, 0~37.5A | 12V, 0~53A   | 48V, 0~21A   |
|                | 15V, 0~22A  | 15V, 0~30A   | 15V, 0~43A   |              |
|                | 24V, 0~14A  | 24V, 0~18.8A | 24V, 0~27A   |              |
|                | 36V, 0~9A   | 36V, 0~12.5A | 36V, 0~17.5A |              |
|                | 48V, 0~7A   | 48V, 0~9.5A  | 48V, 0~13A   |              |
| Dimension (mm) | 199x105x41  | 218x105x41   | 218x105x63.5 | 218x105x63.5 |

□=blank, G; blank: basic function, G: with 5Vsb &amp; no load &lt;0.5~0.75W

# HRP-N3 Series

150~1000W High Reliability &  
350% High Peak Enclosed Type with PFC



HRP-150N3

HRP-300N3

HRP-600N3

HRPG-1000N3



Spec

## Features

- Universal full range input: 85~264VAC
- Withstand 300 VAC surge input for 5 sec
- Built-in active PFC function
- **Up to 350% peak power capability**
- High efficiency up to 94%
- Withstand 5G vibration
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Cooling by free air convection (HRP-150N3)
- Built-in cooling fan ON/OFF control (HRP-300N3/600N3/1000N3)
- Built-in constant current limiting circuit
- Built-in remote sense function
- **5 years warranty**

## Models



| Model No.      | HRP-150N3   | HRP-300N3  | HRP-600N3    | HRPG-1000N3  |
|----------------|-------------|------------|--------------|--------------|
| Vout / Iout    | 12V, 0~13A  | 12V, 0~27A | 12V, 0~53A   | 12V, 0~80A   |
|                | 24V, 0~6.5A | 24V, 0~14A | 24V, 0~27A   | 24V, 0~42A   |
|                | 36V, 0~4.3A | 36V, 0~9A  | 36V, 0~17.5A | 36V, 0~28A   |
|                | 48V, 0~3.3A | 48V, 0~7A  | 48V, 0~13A   | 48V, 0~21A   |
| Dimension (mm) | 159x97x38   | 199x105x41 | 218x105x61.5 | 218x105x61.5 |



## 5000/10000W Three-Phase High-Voltage Input Programmable Power Supply with PFC

# RST Series



RST-5000



RST-10000



Spec

## Features

- 3Ø3-wire/△196~305VAC or 3Ø4-wire/Y 340~530VAC wide input range.
- Built-in active PFC function
- High efficiency up to 92.5%
- Protections: Short circuit/Overload/Over voltage/Over temp./Fan alarm
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Built-in current sharing up to 4 units
- Built-in remote ON/OFF control / Remote sense/ Auxiliary power /Alarm signal
- 5 years warranty

## Models



| Model No.      | RST-5000     | RST-10000    |
|----------------|--------------|--------------|
| Vout / Iout    | 24V, 0~200A  | 24V, 0~400A  |
|                | 36V, 0~138A  | 36V, 0~276A  |
|                | 48V, 0~105A  | 48V, 0~210A  |
| Dimension (mm) | 460x211x83.5 | 540x424x83.5 |

# QP Series

Quad Output Enclosed Type with PFC



QP-320



QP-150



Spec

## Features

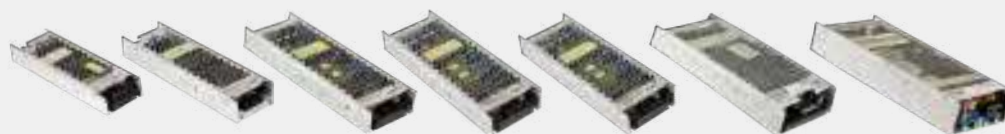
- Universal full range input: 90~264VAC
- Protections: Short circuit/Overload/Over voltage/ Over temp. (Optional for QP-150)
- Forced air cooling by built-in DC fan
- Built-in active PFC function
- CH1 & 2 can be adjustable from -5%~+10% (QP-200/320)
- CH1 & 2 remote sense function (QP-200/320)
- With PG and PF signal output (QP-200/320)
- 3 years warranty

## Models



| Model No.      | Output Number | QP-150B        | QP-150C        | QP-150D       | QP-150F       | QP-150-3A     | QP-150-3B     | QP-150-3C       | QP-150-3D     |
|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|-----------------|---------------|
| Vout / Iout    | CH1           | 5V<br>3~15A    | 5V<br>3~15A    | 5V<br>3~15A   | 5V<br>3~15A   | 5V<br>3~15A   | 5V<br>3~15A   | 5V<br>3~15A     | 5V<br>3~15A   |
|                | CH2           | 12V<br>0.4~5A  | 15V<br>0.4~4A  | 12V<br>0~5A   | 15V<br>0~5A   | 3.3V<br>0~15A | 3.3V<br>0~15A | 3.3V<br>0~15A   | 3.3V<br>0~15A |
|                | CH3           | -12V<br>0.3~2A | -15V<br>0.3~2A | 24V<br>0.4~3A | 24V<br>0.4~3A | 12V<br>0.4~5A | 12V<br>0.4~5A | 15V<br>0.4~5.0A | 24V<br>0.3~3A |
|                | CH4           | -5V<br>0~1A    | -5V<br>0~1A    | -12V<br>0~1A  | -15V<br>0~1A  | -5V<br>0~1A   | -12V<br>0~1A  | -15V<br>0~1.0A  | -12V<br>0~1A  |
| Dimension (mm) |               | 199x99x50      |                |               |               |               |               |                 |               |

| Model No.      | Output Number | QP-320D      | QP-320F        |
|----------------|---------------|--------------|----------------|
| Vout / Iout    | CH1           | 5V, 2.5~20A  | 5V, 2.5~20A    |
|                | CH2           | 12V, 0~10A   | 15V, 0~10A     |
|                | CH3           | 24V, 0.2~5A  | 24V, 0.2~5A    |
|                | CH4           | -12V, 0.2~2A | -15V, 0.2~1.6A |
| Dimension (mm) |               | 215x115x50   |                |



UHP-200

UHP-350

UHP-500

UHP-750

UHP-1000

UHP-1500

UHP-2500



Spec

## Features

- Universal full range input: 90~264VAC
- Withstand 300VAC surge input for 5 sec
- Filled with half glue, dustproof and anti-vibration (except UHP-2500)
- Slim width and low profile
- Built-in active PFC function
- 150% peak load capacity (100ms, UHP-200~500)
- Fanless design, free air convection
- Output voltage and constant current level adjustable ( $\geq 1000W$ )
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Optional PMBus or CANBus protocol(UHP-1500/2500)
- Redundancy function(UHP-R Series)/remote ON-OFF control ( $\geq 1000W$ )
- DC OK active signal/LED indicator for power on
- 3 years warranty(UHP-200~750)
- 5 years warranty(UHP-1000/1500/2500)

## Models

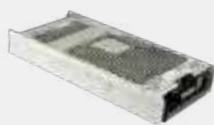


| Model No.      | UHP-200□     | UHP-350□     | UHP-500□      | UHP-750      | UHP-1000   | UHP-1500     | UHP-2500      |
|----------------|--------------|--------------|---------------|--------------|------------|--------------|---------------|
| Vout / Iout    | 3.3V, 0~40A  | 3.3V, 0~60A  | 4.2V, 0~80A   | 12V, 0~60A   | 12V, 0~80A | 24V, 0~62.5A | 24V, 0~104.2A |
|                | 4.2V, 0~40A  | 4.2V, 0~60A  | 5V, 0~80A     | 24V, 0~31.3A | 24V, 0~42A | 48V, 0~31.5A | 36V, 0~69.4A  |
|                | 5V, 0~40A    | 5V, 0~60A    | 12V, 0~41.7A  | 36V, 0~21A   | 36V, 0~28A |              | 48V, 0~52.1A  |
|                | 12V, 0~16.7A | 12V, 0~29.2A | 15V, 0~33.4A  | 48V, 0~15.7A | 48V, 0~21A |              |               |
|                | 15V, 0~13.4A | 15V, 0~23.4A | 24V, 0~20.9A  |              |            |              |               |
|                | 24V, 0~8.4A  | 24V, 0~14.6A | 36V, 0~13.9A  |              |            |              |               |
|                | 36V, 0~5.6A  | 36V, 0~9.75A | 48V, 0~10.45A |              |            |              |               |
|                | 48V, 0~4.2A  | 48V, 0~7.3A  | 55V, 0~8.9A   |              |            |              |               |
|                | 55V, 0~3.6A  | 55V, 0~6.3A  |               |              |            |              |               |
| Dimension (mm) | 194x55x26    | 220x62x31    | 233x81x31     | 237x100x41   | 240x115x41 | 290x140x41   | 310x140x60    |

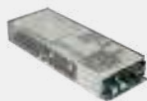
□=blank, R blank:Enclosed R:Built-in DC OK active signal and redundant function.

# High Voltage Models

1500W~3000W DC High Voltage Output  
Power Supply with PFC



UHP-1500-HV



PHP-3500-HV



HEP-2300-HV



CSP-3000



Spec

## UHP/PHP Features

- Slim type with fanless design
- Built-in active PFC function
- Output voltage and constant current level programmable
- Built-in PMBus or CANBus protocol
- Built-in remote switch/DC OK signal/Auxiliary power output
- Protection type: Short circuit/Overload/Over voltage/Over temp.
- Optional water-cooled plate cooling device (PHP-3500HV)
- 5 years warranty

## HEP Features

- Universal full range input: 90~305VAC
- Built-in active PFC function, high efficiency up to 95.5%
- Fanless design, conduction natural convection heat dissipation
- Aluminum case and filling with heat-conducted silicone
- Withstand 10G vibration test
- -40~+70°C wide operating range
- Built-in CANBus/PMBus protocol selectable
- Output voltage and constant current level programmable
- With DC\_OK signal output, built-in remote ON-OFF control
- 12V/0.5A auxiliary power output
- LED indicator for power on
- Protection: Short circuit/Overload/Overvoltage/Over temp.
- 6 years warranty

## CSP Features

- Active PFC function
- High efficiency up to 93%
- Protection: Short circuit/Overload/Overvoltage/Over temp.
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Current sharing up to 3 units
- Remote ON-OFF control/Auxiliary Power/ DC\_OK signal output
- Optional conformal coating
- 5 years warranty

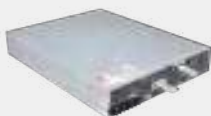
## Models



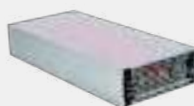
| Model No.      | UHP-1500-HV   | PHP-3500-HV   | HEP-2300-HV   | CSP-3000       |
|----------------|---------------|---------------|---------------|----------------|
| Vin            | 90~264VAC     | 90~264VAC     | 90~305VAC     | 180~264VAC     |
| Vout / Iout    | 115V, 0~13A   | 115V, 0~25.2A | 115V, 0~20A   | 120V, 0~25A    |
|                | 230V, 0~7A    | 230V, 0~15.2A | 230V, 0~10.6A | 250V, 0~12A    |
|                | 380V, 0~4.5A  | 380V, 0~9.2A  | 380V, 0~6.9A  | 400V, 0~7.5A   |
|                | 380E: 0~3.95A |               |               |                |
| Dimension (mm) | 290x140x41    | 380x141.4x60  | 375x280x88    | 278x177.8x63.5 |



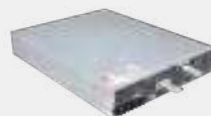
RST-7K5-HV



RST-15K-HV



SHP-10K-HV



SHP-30K-HV



Spec

## RST/SHP Features

- 3Ø 3-wire/△196~305VAC or 3Ø 4-wire/  
Y 340~530VAC (RST)
- 3Ø 3-wire/△or Y 340~530VAC or 3Ø 4-wire/  
Y 340~530VAC (SHP)
- Water / forced air cooling  
selectable (RST-7K5/SHP-10K)
- Forced air cooling (RST-15K/SHP-30K)
- Built-in CANBus/Optional PMBus  
protocol/MODBus-RTU/RS-485(SHP)
- Output voltage adjustable range:  
Widest up to 1~120% (RST)
- Active current sharing up to 28.5KW(RST)  
Active current sharing up to 120KW (SHP)
- Output voltage and constant current level programmable
- Built-in ON/OFF control/Alarm signal output
- DC OK active signal & Built-in 12V auxiliary  
power(SHP-10K/30K)
- Protections: Short circuit/Overload/Over voltage/  
Over temp.
- 5 years warranty

## Models



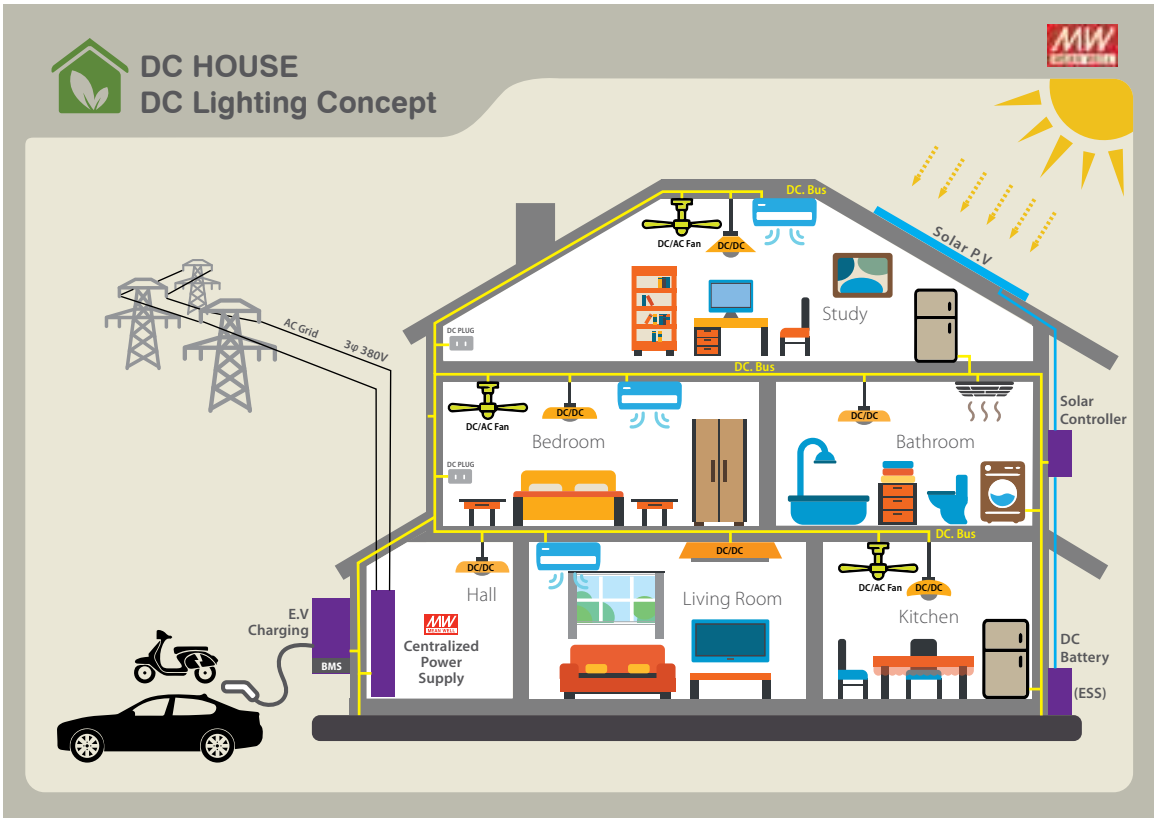
| Model No.         | RST-7K5-HV                                   | RST-15K-HV   | SHP-10K-HV                | SHP-30K-HV   |
|-------------------|----------------------------------------------|--------------|---------------------------|--------------|
| Vin               | 3Ø3W<br>Y 196~305VAC or 3Ø4W<br>Y 340~530VAC |              | 3Ø3W/3Ø4W<br>Y 340~530VAC |              |
| Vout / Iout       | 115V, 0~65A                                  | 115V, 0~130A | 55V, 0~150A               | 55V, 346A    |
|                   | 230V, 0~34.5A                                | 230V, 0~69A  | 115V, 0~87A               | 115V, 0~261A |
|                   | 380V, 0~22.5A                                | 380V, 0~45A  | 230V, 0~46.3A             | 230V, 0~139A |
|                   |                                              |              | 380V, 0~30A               | 380V, 0~90A  |
| Dimension<br>(mm) | 460x211x83.5                                 | 540x424x83.5 | 460x211x83.5              | 540x424x83.5 |

# DC House

As increases in energy costs and demands to reduce fossil-based emissions are accelerating a worldwide call for clean energy and efficient power consumption, the DC House is far beyond a concept but necessary infrastructure. MEAN WELL is proud to introduce a new DC centralized bus for indoor device applications to reduce power loss issue.

With nearly four decades of experience in power supply design and manufacturing, MEAN WELL provides power solutions for DC centralized bus and DC lighting applications with complete enclosed type and DC to DC LED driver product portfolios. The DC centralized bus is easily integrated into a renewable energy system to reduce power consumption and total cost.

Please refer to the below diagram for a brand new “DC WORLD”.



## DC Centralized Bus for Lighting Application Selection Guide

| Voltage Catalog            | Front-end<br>(AC to DC Enclosed type)                       | Back-end<br>(DC to DC LED driver)                  | Dimming function                           |
|----------------------------|-------------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| Low Voltage bus<br>(48V)   | UHP-1500(103W)<br>RST-5000/10000 (304W)<br>SHP-10K-HV(303W) | NLDD-H series<br>LDD-HWB series<br>LDD-H-DA series | · PWM<br>· 0-10V<br>· DALI                 |
| High Voltage bus<br>(380V) | UHP-1500(103W)<br>RST-7K5/15K (304W)<br>SHP-10K-HV(303W)    | NHDD series                                        | · PWM<br>· Dim with DAP-04 for DALI system |

Note: For detail LED Driver specification, please refer our LED power supply catalog.



NHDD-40



Spec

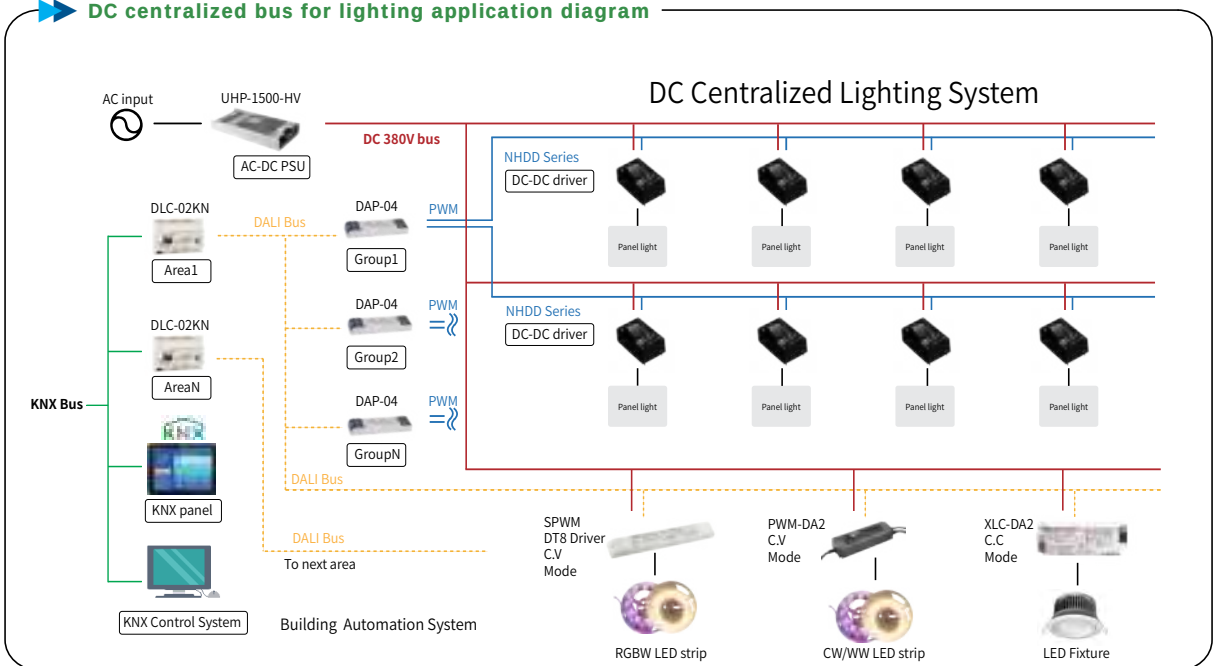
## Features

- Constant current mode output
- For 380Vdc BUS lighting luminaire
- Driver on Board (DoB) Solution available
- Plastic housing and Fully encapsulated
- Built- in PWM dimming and Remote ON/OFF control
- Protections: Short circuit/Over temp.
- 5 years warranty



| Model No.      | NHDD-40        |
|----------------|----------------|
| Vout           | 360~420V       |
| Dimension (mm) | 32.1x20.5x12.5 |

## DC centralized bus for lighting application diagram





# SPV/ERDN Series

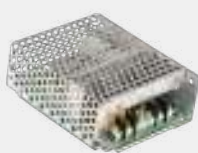
SPV:150~300W Programmable Enclosed Type  
ERDN:20A/40A Enclosed Redundancy Module



SPV-150



SPV-300



ERDN20



ERDN40



SPV Spec



ERDN Spec

## SPV Features

- Universal full range input: 88~264VAC
- Built-in active PFC function
- Cooling by free air convection (SPV-150)
- Forced air cooling by built-in DC fan (SPV-300)
- Output voltage programmable from 20~110% by 1~5.5Vdc external control signal
- Built-in remote ON-OFF control
- Built-in fan speed control (SPV-300)
- Protections: Short circuit/Overload/Over voltage/Over temp.
- 3 years warranty

## ERDN Features

- Support 1+1 and N+1 redundancy system
- 2 channels input and 1 output
- Suitable for redundancy operation of 5V (ERDN20 Only)/12V/24V/48V system
- Output current 20A & 40A
- Cooling by free air convection
- -40~+80°C wide operating range(>+60°C derating)
- Built-in 2 channels DC OK signal and alarm relay contact
- LED indicator for power on
- 3 years warranty

## Models



| Model No.     | SPV-150       | SPV-300      |
|---------------|---------------|--------------|
| Vout / Iout   | 12V, 0~12.5A  | 12V, 0~25A   |
|               | 24V, 0~6.25A  | 24V, 0~12.5A |
|               | 48V, 0~3.125A | 48V, 0~6.25A |
| Dimension(mm) | 215x115x50    | 215x115x50   |



| Model No.     | ERDN20-24 |         |          |          | ERDN40-24 |          |          |
|---------------|-----------|---------|----------|----------|-----------|----------|----------|
|               | 5         | 12      | 24       | 48       | 12        | 24       | 48       |
| Vin           | 4.5~6VDC  | 9~14VDC | 19~29VDC | 36~60VDC | 9~14VDC   | 19~29VDC | 36~60VDC |
| Input / Iout  | 2x10A/20A |         |          |          | 2x20A/40A |          |          |
| Dimension(mm) | 82x99x36  |         |          |          | 97x99x36  |          |          |

□=5, 12, 24, 48

□=12, 24, 48

## 100~3200W High Reliability Medical Enclosed Type

## MSP Series



MSP-100

MSP-200

MSP-300

MSP-450

MSP-600

MSP-1000

MSP-1600

MSP-3200



Spec

## ■ 100~1000W Features

- Universal full range input: 85~264VAC
- **Medical safety approved (2x MOOP)**
- Built-in active PFC function
- Withstand 300VAC surge input for 5 secs.
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Built-in constant current limiting circuit
- Built-in remote sense function/remote ON-OFF control (MSP-200/300/4500/600/1000)
- Current sharing up to 4 units (MSP-600-24/36/48, MSP-1000)
- No load power consumption <0.5W~0.8W
- Stand by 5V@0.3A (MSP-200/300/4500/600/1000)
- Built-in DC OK signal (MSP-300/4500/600/1000)
- **5 years warranty**

## ■ 1600~3200W Features

- Universal full range input: 85~264VAC for MSP-1600  
85~305VAC for MSP-3200
- Built-in **CANBus** protocol
- **-40~+85°C** wide range operation temperature
- Extremely low leakage current <500μA, 2 x MOOP, suitable for **BF** medical applications
- Protections: Short circuit/Overload/Over voltage /Over temperature
- Built-in Remote ON/OFF control/Remote SenseDCOK signal/OTP alarm signal/12Vaux power
- Over voltage category III (**OVC III**)
- Operating altitude up to 5000 meters
- Built-in intelligent fan speed control, **low noise <38~45dB**
- **PCB Conformal coating**
- **5 years warranty**

## ■ Models



| Model No.      | MSP-100       | MSP-200       | MSP-300     | MSP-450      | MSP-600      | MSP-1000     |
|----------------|---------------|---------------|-------------|--------------|--------------|--------------|
| Vout / Iout    | 3.3V, 0~20A   | 3.3V, 0~40A   | 3.3V, 0~60A | 3.3V, 0~90A  | 3.3V, 0~120A | 12V, 0~80A   |
|                | 5V, 0~17A     | 5V, 0~35A     | 5V, 0~60A   | 5V, 0~90A    | 5V, 0~120A   | 15V, 0~64A   |
|                | 7.5V, 0~13.5A | 7.5V, 0~26.7A | 7.5V, 0~40A | 7.5V, 0~60A  | 7.5V, 0~80A  | 24V, 0~42A   |
|                | 12V, 0~8.5A   | 12V, 0~16.7A  | 12V, 0~27A  | 12V, 0~37.5A | 12V, 0~53A   | 48V, 0~21A   |
|                | 15V, 0~7A     | 15V, 0~13.4A  | 15V, 0~22A  | 15V, 0~30A   | 15V, 0~43A   |              |
|                | 24V, 0~4.5A   | 24V, 0~8.4A   | 24V, 0~14A  | 24V, 0~18.8A | 24V, 0~27A   |              |
|                | 36V, 0~2.9A   | 36V, 0~5.7A   | 36V, 0~9A   | 36V, 0~12.5A | 36V, 0~17.5A |              |
|                | 48V, 0~2.2A   | 48V, 0~4.3A   | 48V, 0~7A   | 48V, 0~9.5A  | 48V, 0~13A   |              |
| Dimension (mm) | 159x97x38     | 199x98x38     | 199x105x41  | 218x105x41   | 218x105x63.5 | 218x105x63.5 |

| Model No.      | MSP-1600 <b>NEW</b> | MSP-3200 <b>COMING SOON</b> |
|----------------|---------------------|-----------------------------|
| Vout / Iout    | 12V, 0~125A         | 12V, 0~240A                 |
|                | 24V, 0~67A          | 15V, 0~200A                 |
|                | 36V, 0~44.5A        | 24V, 0~133A                 |
|                | 48V, 0~33.5A        | 27V, 0~118A                 |
|                |                     | 36V, 0~89A                  |
|                |                     | 48V, 0~67A                  |
| Dimension (mm) | 310x85x41           | 325.8x107x41                |

# HDR Series

15~150W Step Shape DIN Rail Power



Spec



HDR-15

HDR-30

HDR-60

HDR-100

HDR-150

## Features

- Universal full range input: 85~264VAC (277 VAC operational)
- **Isolation Class II**
- DIN Rail: TS-35/7.5 or TS-35/15
- Cooling by free air convection
- Protections: Short circuit/Overload/Over voltage
- No load power consumption **<0.3W**
- **Class 2 power unit/Pass LPS** (HDR-15/30/60/100)
- **Over voltage category III**
- DC output voltage adjustable
- LED indicator for power on
- 3 years warranty

## Models



| Model No.      | HDR-15       | HDR-30       | HDR-60       | HDR-100      | HDR-100-N   | HDR-150      |
|----------------|--------------|--------------|--------------|--------------|-------------|--------------|
| Vout / Iout    | 5V, 0~2.4A   | 5V, 0~3A     | 5V, 0~6.5A   | 12V, 0~7.1A  | 12V, 0~7.5A | 12V, 0~11.3A |
|                | 12V, 0~1.25A | 12V, 0~2A    | 12V, 0~4.5A  | 15V, 0~6.13A | 15V, 0~6.5A | 15V, 0~9.5A  |
|                | 15V, 0~1A    | 15V, 0~2A    | 15V, 0~4A    | 24V, 0~3.83A | 24V, 0~4.2A | 24V, 0~6.25A |
|                | 24V, 0~0.63A | 24V, 0~1.5A  | 24V, 0~2.5A  | 48V, 0~1.92A | 48V, 0~2.1A | 48V, 0~3.2A  |
|                | 48V, 0~0.32A | 48V, 0~0.75A | 48V, 0~1.25A |              |             |              |
| Dimension (mm) | 17.5x90x54.5 | 35x90x54.5   | 52.5x90x54.5 | 70x90x54.5   | 70x90x54.5  | 105x90x54.5  |

HDR-100: **92W max.**, pass LPS

HDR-100-xxN: **100W max.**, non-LPS with a wide output adjustable range

## 10~96W Ultra Slim DIN Rail Power

## MDR Series



Spec

## Features

- Universal full range input: 85~264VAC
- **Class I power unit**
- DIN Rail: TS-35/7.5 or TS-35/15
- Cooling by free air convection
- Protections: Short circuit/Overload/Over voltage
- Built-in active PFC and over temp. protection (MDR-100)
- **Div 2 Hazardous Locations T4 (MDR-40/60)**
- No load power consumption <0.75~1W
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40~100)
- DC output voltage adjustable (MDR-20~100)
- LED indicator for power on
- 3 years warranty

## Models



| Model No.      | MDR-10       | MDR-20       | MDR-40       | MDR-60       | MDR-100     |
|----------------|--------------|--------------|--------------|--------------|-------------|
| Vout / Iout    | 5V, 0~2A     | 5V, 0~3A     | 5V, 0~6A     | 5V, 0~10A    | 12V, 0~7.5A |
|                | 12V, 0~0.84A | 12V, 0~1.67A | 12V, 0~3.33A | 12V, 0~5A    | 24V, 0~4A   |
|                | 15V, 0~0.67A | 15V, 0~1.34A | 24V, 0~1.7A  | 24V, 0~2.5A  | 48V, 0~2A   |
|                | 24V, 0~0.42A | 24V, 0~1A    | 48V, 0~0.83A | 48V, 0~1.25A |             |
| Dimension (mm) | 22.5x90x100  | 22.5x90x100  | 40x90x100    | 40x90x100    | 55x90x100   |

### HDR vs. MDR

| Difference Series | Casing Type | Protection Classes | Over Voltage Category | Working Temp. |
|-------------------|-------------|--------------------|-----------------------|---------------|
| HDR               | Step Shape  | Class II           | OVC III               | -30~+70°C     |
| MDR               | Ultra Slim  | Class I            | -----                 | -20~+70°C     |

# XDR-E/XDR Series

AC/DC Ultra Slim  
High Reliability DIN Rail Power

NEW



XDR-75(E)

XDR-120(E)

XDR-150E

XDR-240(E)

XDR-480(E)

XDR-960(E)



Comparison Chart



Spec



## ■ Cost-Effective: XDR-E

- Universal full range input: 85~264VAC
- Built-in active PFC (240~960W)
- Ultra slim design: width ranging from 30~96 mm (by model)
- Global certificate in multi-fields
- 89~96% high efficiency and <1W~3.9W low power consumption (by model)
- Built-in parallel function (XDR-480E/960E)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Protections: Short circuit / Overload / Over voltage / Over Temp.
- Over voltage category III (OVC III)
- Operating altitudes up to 5000 meters
- 3 years warranty



## ■ High-End Flagship: XDR

- Universal full range input: 85~305VAC
- Built-in active PFC (120~960W)
- Ultra slim design: width ranging from 30~96 mm (by model)
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010) & Marine DNV, SEMI F47, CID2 HazLoc approved.
- 200% peak power capability
- 600% transient peak current capability
- -40~+85°C wide range operation temperature (>+60°C derating)
- 91~96% high efficiency and <1W~3W low power
- Built-in parallel function (XDR-240~960W)
- Built-in remote ON/OFF control and DC OK relay contact
- Over voltage category III (OVC III)
- Protections: Short circuit / Overload / Over voltage / Over Temp.
- operating altitudes up to 5000 meters
- PCB conformal coating
- 5 years warranty

## ■ Models



| Model No.      | XDR-75E      | XDR-120E     | XDR-150E                                 | XDR-240E     | XDR-480E     | XDR-960E     |
|----------------|--------------|--------------|------------------------------------------|--------------|--------------|--------------|
| Vout / Iout    | 12V, 0~6.3A  | 12V, 0~10A   | 12V,<br>115VAC:0~10A<br>230VAC:0~11A     | 12V, 0~20A   | 12V, 0~30A   | 24V, 0~40A   |
|                | 24V, 0~3.2A  | 24V, 0~5A    | 24V,<br>115VAC:0~5.2A<br>230VAC:0~6.5A   | 24V, 0~10A   | 24V, 0~20A   | 36V, 0~26.6A |
|                | 36V, 0~2.1A  | 36V, 0~3.33A | 36V,<br>115VAC:0~3.46A<br>230VAC:0~4.33A | 36V, 0~6.66A | 36V, 0~13.3A | 48V, 0~20A   |
|                | 48V, 0~1.6A  | 48V, 0~2.5A  | 48V,<br>115VAC:0~2.6A<br>230VAC:0~3.25A  | 48V, 0~5A    | 48V, 0~10A   |              |
| Dimension (mm) | 30x125.2x116 | 30x125.2x116 | 30x125.2x116                             | 40x125.2x116 | 48x125.2x125 | 96x125.2x132 |

| Model No.      | XDR-75-xx□   | XDR-120-xx□  | XDR-240-xx□  | XDR-480-xx□  | XDR-960-xx□  |
|----------------|--------------|--------------|--------------|--------------|--------------|
| Vout / Iout    | 12V, 0~6.3A  | 12V, 0~10A   | 12V, 0~20A   | 12V, 0~30A   | 24V, 0~40A   |
|                | 24V, 0~3.2A  | 24V, 0~5A    | 24V, 0~10A   | 24V, 0~20A   | 36V, 0~26.6A |
|                | 36V, 0~2.1A  | 36V, 0~3.33A | 36V, 0~6.66A | 36V, 0~13.3A | 48V, 0~20A   |
|                | 48V, 0~1.6A  | 48V, 0~2.5A  | 48V, 0~5A    | 48V, 0~10A   |              |
| Dimension (mm) | 30x125.2x116 | 30x125.2x116 | 40x125.2x116 | 48x125.2x125 | 96x125.2x132 |

□=Blank, LA, PI   Blank: Screw Terminal   LA: Lever Actuated   PI: Push In

※ The XDR-E/XDR series outperforms the SDR/NDR/EDR series with enhanced features. For new projects, please adopt the XDR-E/XDR series.

| Terminal Type Options |                | Note     |
|-----------------------|----------------|----------|
| Blank                 | Screw Terminal | In stock |
| LA                    | Lever Actuated | In stock |
| PI                    | Push In        | In stock |

# 75~960W High Performance DIN Rail Power SDR Series



SDR-75

SDR-120

SDR-240

SDR-480 (P)

SDR-960



Spec

## Features

- Universal AC input / Full range(SDR-75~480)  
180~264 VAC input only (SDR-960)
- DIN Rail: TS-35/7.5 or TS-35/15
- High efficiency up to 94%
- Cooling by free air convection
- Protections: Short circuit/Overload/  
Over voltage/Over temp.
- 130%~150% peak load capability
- DC output voltage adjustable
- Current sharing (7+1 for SDR-480P, 3+1 for SDR-960)
- Built-in DC OK relay contact (Except for SDR-75)
- Built-in constant current limiting circuit
- Comply with SEMI-F47
- EN61000-6-2 (EN50082-2) industrial immunity level
- UL508(industrial control equipment) approved
- 3 years warranty

## Models



| Model No.      | SDR-75       | SDR-120        | SDR-240        | SDR-480□         | SDR-960       |
|----------------|--------------|----------------|----------------|------------------|---------------|
| Vin            | 88~264VAC    | 88~264VAC      | 88~264VAC      | 90~264VAC        | 180~264VAC    |
| Vout / Iout    | 12V, 0~6.3A  | 12V, 0~10A     | 24V, 0~10A     | 24V, 0~20A       | 24V, 0~40A    |
|                | 24V, 0~3.2A  | 24V, 0~ 5A     | 48V, 0~5A      | 48V, 0~10A       | 48V, 0~20A    |
|                | 48V, 0~1.6A  | 48V, 0~2.5A    |                |                  |               |
| Dimension (mm) | 32x125.2x102 | 40x125.2x113.5 | 63x125.2x113.5 | 85.5x125.2x128.5 | 110x125.2x150 |

□=blank, P ; Blank: basic function, P: with parallel function

# NDR/EDR Series

75~480W Economical DIN Rail Power



NDR-75 NDR-120 NDR-240 NDR-480



EDR-75 EDR-120 EDR-150



NDR Spec



EDR Spec

## Features

- Universal full range input: 90~264VAC
- DIN Rail: TS-35/7.5 or TS-35/15
- Built-in active PFC (NDR-240/480)
- Cooling by free air convection
- Protections: Short circuit/Overload/Over voltage/Over temp.
- DC output voltage adjustable
- Built-in constant current limiting circuit
- EN61000-6-2 (EN50082-2) industrial immunity level
- UL508 (industrial control equipment) approved
- LED indicator for power on
- 3 years warranty (NDR Series)
- 2 years warranty (EDR Series)

## Models



| Model No.      | NDR-75       | NDR-120        | NDR-240        | NDR-480          |
|----------------|--------------|----------------|----------------|------------------|
| Vout / Iout    | 12V, 0~6.3A  | 12V, 0~10A     | 24V, 0~10A     | 24V, 0~20A       |
|                | 24V, 0~3.2A  | 24V, 0~5A      | 48V, 0~5A      | 48V, 0~10A       |
|                | 48V, 0~1.6A  | 48V, 0~2.5A    |                |                  |
| Dimension (mm) | 32x125.2x102 | 40x125.2x113.5 | 63x125.2x113.5 | 85.5x125.2x128.5 |



| Model No.      | EDR-75       | EDR-120        | EDR-150            |
|----------------|--------------|----------------|--------------------|
| Vout / Iout    | 12V, 0~6.3A  | 12V, 0~10A     | 24V, 0~6.5A/0~5.2A |
|                | 24V, 0~3.2A  | 24V, 0~5A      |                    |
|                | 48V, 0~1.6A  | 48V, 0~2.5A    |                    |
| Dimension (mm) | 32x125.2x102 | 40x125.2x113.5 | 40x125.2x113.5     |

## EDR vs. NDR

| Difference Series | EMI     | Working Temp. | Warranty |
|-------------------|---------|---------------|----------|
| EDR               | Class A | -20~+60°C     | 2 years  |
| NDR               | Class B | -20~+70°C     | 3 years  |

**NEW**

**240~960W 3Φ Input Ultra-slim  
High Reliability DIN Rail power supply**

**XTR Series**



XTR-240



XTR-480



XTR-960



Comparison  
Chart



Spec

## Features

- Three-Phase 320~600VAC wide range input  
(Dual phase operation possible)
- Ultra-slim design: 48~96mm width depending on model
- 150% ~ 200% peak power output capability
- High efficiency: 92%~ 96%, low no-load power consumption <2.5W~3.1W (by model)
- -40°C ~ +85°C wide range operation temperature (>+60°C derating)
- Built-in parallel function(XTR-480/960)
- DC OK signal and OR-ing FET (XTR-480 / 960)
- Over voltage category III (OVC III)
- Operating altitude up to 5000 meters
- Protections: Short circuit /Overload / Over voltage /Over temperature
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16,61010) & Marine DNV, SEMI F47,CID2 HazLoc approved
- PCB Conformal coating
- 5 years warranty

## Models



| Model No.      | XTR-240○-xx□ | XTR-480-xx□○ | XTR-960-xx□○  |
|----------------|--------------|--------------|---------------|
| Vout / Iout    | 12V, 0~15A   | 12V, 0~30A   | 24V, 0~40A    |
|                | 24V, 0~10A   | 24V, 0~20A   | 36V, 0~26.66A |
|                | 36V, 0~6.66A | 36V, 0~13.3A | 48V, 0~20A    |
|                | 48V, 0~5A    | 48V, 0~10A   |               |
| Dimension (mm) | 48x125.2x125 | 63x125.2x125 | 96x125.2x132  |

**XTR-240:** ○=Blank, P Blank:basic function P: with parallel function  
□=Blank, LA, PI Blank: Screw Terminal LA: Lever Actuated PI: Push In

**XTR-480/960:** □=Blank, LA, PI Blank: Screw Terminal LA: Lever Actuated PI: Push In  
○=Mount bracket: Blank, GL

| Terminal Type Options |                | Note     |
|-----------------------|----------------|----------|
| Blank                 | Screw Terminal | In stock |
| LA                    | Lever Actuated | In stock |
| PI                    | Push In        | In stock |

※ The XTR series outperforms the TDR series with enhanced features.  
For new projects, please adopt the XTR series.



WDR/TDR Series

WDR: 60~480W 1Ø Wide Input DIN Rail  
TDR: 240~960W 3Ø Wide Input DIN Rail



WDR-60 WDR-120 WDR-240 WDR-480



TDR-240 TDR-480 TDR-960



WDR Spec



TDR Spec

WDR Features

- 1Ø or 2Ø phase ultra wide input range 180~550VAC
- DIN Rail: TS-35/7.5 or TS-35/15
- Built-in active PFC (WDR-240/480)
- Built-in constant current limiting circuit
- Cooling by free air convection
- Protections: Short circuit/Overload/Over voltage/Over temp.
- DC output voltage adjustable
- EN61000-6-2 (EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- Over voltage category III (WDR-60)
- 3 years warranty

TDR Features

- 3Ø, 340~550VAC wide range input (2Ø operation possible)
- Slim width with 63~110 mm
- DIN Rail: TS-35/7.5 or TS-35/15
- Built-in active PFC function (TDR-480/960)
- Built-in passive PFC function (TDR-240)
- High efficiency up to 94.5%
- Cooling by free air convection
- Protections: Overload/Over voltage/Over temp.
- DC output voltage adjustable
- UL508 / UL61010-1 Industrial control equipment approved
- Current sharing up to 3840W (3+1) for TDR-960
- Built-in DC OK relay contact (optional for TDR-480)
- 3 years warranty

Models



| Model No.      | WDR-60       | WDR-120        | WDR-240        | WDR-480          |
|----------------|--------------|----------------|----------------|------------------|
| Vout / Iout    | 5V, 0~10A    | 12V, 0~10A     | 24V, 0~10A     | 24V, 0~20A       |
|                | 12V, 0~5A    | 24V, 0~5A      | 48V, 0~5A      | 48V, 0~10A       |
|                | 24V, 0~2.5A  | 48V, 0~2.5A    |                |                  |
|                | 48V, 0~1.25A |                |                |                  |
| Dimension (mm) | 32x125.2x102 | 40x125.2x113.5 | 63x125.2x113.5 | 85.5x125.2x128.5 |



| Model No.      | TDR-240        | TDR-480          | TDR-960       |
|----------------|----------------|------------------|---------------|
| Vout / Iout    | 24V, 0~10A     | 24V, 0~20A       | 24V, 0~40A    |
|                | 48V, 0~5A      | 48V, 0~10A       | 48V, 0~20A    |
| Dimension (mm) | 63x125.2x113.5 | 85.5x125.2x128.5 | 110x125.2x150 |



DRA-40

DRA-60

DRDN20

DRDN40



DRA Spec



DRDN Spec

## ■ DRA Features

- Universal full range input: 90~264VAC
- DIN Rail: TS-35/7.5 or TS-35/15
- **Output current adjustable through external 1~10VDC or PWM signal or resistance**
- Cooling by free air convection
- Protections: Overload/Over voltage/Over temp.
- Pass LPS
- DC output voltage adjustable
- LED indicator for power on
- 3 years warranty

## ■ DRDN Features

- **Support 1+1 and N+1 redundancy system**
- DIN Rail: TS-35/7.5 or TS-35/15
- Output current 20A & 40A
- Suitable for redundancy operation of 12V/24V/48V system
- Dual input / single output
- -40~+80°C ultra wide operation temp. (>+60°C derating)
- Built-in 2 channels DC OK signal and alarm relay contact
- LED indicator for power on
- 3 years warranty

## ■ Models



| Model No.      | DRA-40       | DRA-60      |
|----------------|--------------|-------------|
| Vout / Iout    | 12V, 0~3.34A | 12V, 0~5A   |
|                | 24V, 0~1.7A  | 24V, 0~2.5A |
| Dimension (mm) | 40x90x100    | 40x90x100   |



| Model No.              | DRDN20-□     | DRDN40-□       |
|------------------------|--------------|----------------|
| Rated Voltage/ Current | 12V, 0~20A   | 12V, 0~40A     |
|                        | 24V, 0~20A   | 24V, 0~40A     |
|                        | 48V, 0~20A   | 48V, 0~40A     |
| Dimension (mm)         | 32x125.2x102 | 55x125.2x113.5 |

□=12, 24, 48

# DBUF/DUPS Series

DBUF: 20A/40A Buffer Module  
DUPS: 20A/40A Uninterruptible DC-UPS Module



DBUF20

DBUF40



DUPS20

DUPS40



DBUF Spec



DUPS Spec

## DBUF Features

- Buffering with electrolytic capacitors instead of lead acid batteries
- Buffering time: 350ms@20A; 250ms@40A
- Suitable for 24VDC systems
- Buffer mode selectable by switch:
  - Fixed mode at 22VDC
  - Dynamic mode for Vin-1VDC
- Support parallel connection to extend buffering time
- -25°C~+75°C wide operating temperature
- LED indicator for signal status
- 3 years warranty

## DUPS Features

- Uninterruptible DC-UPS controller
- Parallel connection to DC BUS  
(Power supply+DC-UPS Module+Batteries+Load)
- Suitable for 24V system, up to 40A
- 2A Battery charging current
- Allows 4AH~135AH lead-acid various battery capacities
- Complete diagnostic and monitoring for DC BUS OK, battery discharge, battery fail
- Protections: Battery reverse polarity / Short circuit(By internal fuse) / Battery discharge / Over discharge current
- Cooling by free air convection
- LED indicator for signal status
- 3 years warranty

## Models

CB cULus ENEC CE UK CA

| Model No.                  | DBUF20-24      | DBUF40-24      |
|----------------------------|----------------|----------------|
| DC Operating Voltage Range | 22~29VDC       | 22~29VDC       |
| Buffer Time                | 350ms@20A      | 250ms@40A      |
|                            | 700ms@10A      | 500ms@20A      |
|                            | 45s@0.1A       | 42s@0.1A       |
| Dimension (mm)             | 63x125.2x114.9 | 63x125.2x114.9 |

ENEC CE UK CA

| Model No.      | DUPS20         | DUPS40         |
|----------------|----------------|----------------|
| DC BUS Voltage | 24~29VDC       | 24~29VDC       |
| DC BUS Current | 20A            | 40A            |
| Dimension (mm) | 40x125.2x113.5 | 63x125.2x113.5 |



ICL-16R



ICL-28R



ICL-16L



ICL-28L



Spec

## Features

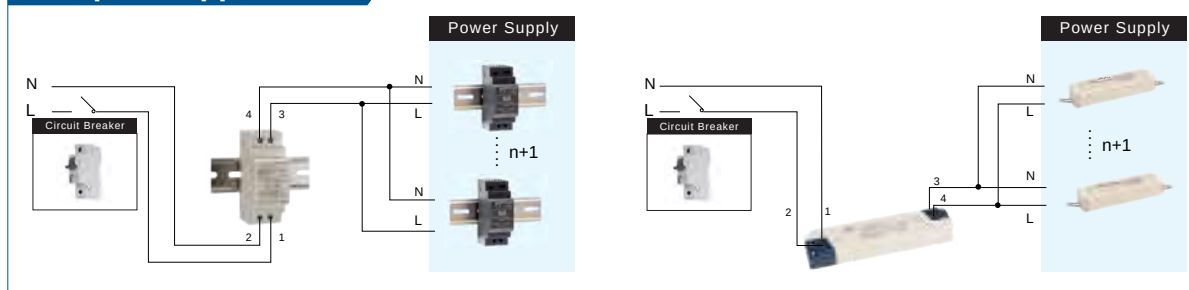
- ICL-16R/L: 23A inrush current limiting, **16A** continuous
- ICL-28R/L: 48A inrush current limiting, **28A** continuous
- 180~264VAC input
- Integrated bypass relay, no simple NTC
- Internal thermal protection
- DIN Rail: TS-35/7.5 or 15 (ICL-16R/28R)
- -30°C~+70°C wide operating temperature
- Over voltage category III
- Operating altitude up to 5000 meters
- 3 years warranty

## Models

EAC CE UK CA

| Model No.      | ICL-16R           | ICL-16L          | ICL-28R             | ICL-28L          |
|----------------|-------------------|------------------|---------------------|------------------|
| Inrush Current | 16A               | 16A              | 28A                 | 28A              |
| Type.          | DIN Rail          | Terminal Block   | DIN Rail            | Terminal Block   |
| Dimension (mm) | 35x90x54.5(WxHxD) | 175x42x24(LxWxH) | 52.5x90x54.5(WxHxD) | 175x42x24(LxWxH) |

## Example of Application



For the number of power supplies being able to be connected to ICL-16R/L and ICL-28R/L, please refer to the installation manual.

IOB Series

5~15W AC-DC Industrial  
Ultra-Compact On Board Type Power Module

NEW



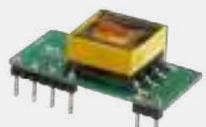
IOB-05



IOB-15-xxA



IOB-15-xxB



IOB-15-xxC



Spec

Features

- 85~305VAC input (277VAC available)
  - No load power consumption 0.15~0.25W
  - -40~+85°C wide operating temperature
  - Protections:Short circuit/Overload /Over voltage
  - Compliance to BS/EN 55032 requires additional components.
- Cooling by free air convection
  - Safety Class II
  - 3 years warranty

Models



| Model No.      | IOB-05                               | IOB-15-xx□                                                                                                               |
|----------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Vout / Iout    | 3.3V, 0.1~1A                         | 3.3V, 0~3A                                                                                                               |
|                | 5V, 0.1~1A                           | 5V, 0~2.8A                                                                                                               |
|                | 9V, 0.056~0.56A                      | 9V, 0~1.67A                                                                                                              |
|                | 12V, 0.042~0.42A                     | 12V, 0~1.25A                                                                                                             |
|                | 15V, 0.034~0.34A                     | 15V, 0~1A                                                                                                                |
|                | 24V, 0.021~0.21A                     | 24V, 0~0.625A                                                                                                            |
| Dimension (mm) | 26.4x14.73x11<br>(1.03"x0.57"x0.43") | A : 44.5x25x15 (1.751"x0.984"x0.59")<br>B : 44.5x25.5x15(1.751"x1.003"x0.59" )<br>C : 44.5x23x15.5 (1.751"x0.905"x0.61") |

□=A, B, C    A: Edge Connector    B: Vertical    C: Horizontal

## 5~30W Medical Grade PCB-Mounted

## MFM Series



MFM-05/10



MFM-15/20



MFM-30



Spec

## Features

- Universal full range input: 80~264VAC
- Cheap bare board
- Medical safety approved (2xMOPP)
- Suitable for BF application
- Protections: Short circuit/Overload/Over voltage/Over temp. (Except for MFM-30)
- Extremely low leakage current
- No load power consumption  $<0.075\sim0.1W$
- EMI class B for Class II configuration
- $-40\sim+85^{\circ}C$  wide range working temp.
- Miniature size, high power density
- Provide 110% peak power for 10 secs.
- No minimum load required
- 3 years warranty

## Models



| Model No.      | MFM-05       | MFM-10       | MFM-15     | MFM-20     | MFM-30     |
|----------------|--------------|--------------|------------|------------|------------|
| Vout / Iout    | 3.3V, 1.25A  | 3.3V, 2.5A   | 3.3V, 3.5A | 3.3V, 4.5A | 3.3V, 6A   |
|                | 5V, 1A       | 5V, 2A       | 5V, 3A     | 5V, 4A     | 5V, 6A     |
|                | 12V, 0.42A   | 12V, 0.85A   | 12V, 1.25A | 12V, 1.8A  | 12V, 2.5A  |
|                | 15V, 0.33A   | 15V, 0.67A   | 15V, 1A    | 15V, 1.4A  | 15V, 2A    |
|                | 24V, 0.23A   | 24V, 0.42A   | 24V, 0.63A | 24V, 0.9A  | 24V, 1.3A  |
|                |              |              |            |            | 48V, 0.63A |
| Dimension (mm) | 42x22.3x20.5 | 42x22.3x20.5 | 49x23.8x23 | 49x23.8x23 | 65.5x35x23 |

## Product Roadmap of Universal PCB

ITE: EPS/EPP Series; Medical: RPS/D/T Series;  
ITE + Medical + Household Appliances: LOP Series

|         |                                              |                                   |                                              |                                   |                                   |
|---------|----------------------------------------------|-----------------------------------|----------------------------------------------|-----------------------------------|-----------------------------------|
| 3" x 2" | <br>EPS-25/35<br>EPS-45S/65S<br>RPS-30/45/65 | <br>EPP-120S<br>RPS-120S          |                                              |                                   |                                   |
| 4" x 2" | <br>EPS-45/65<br>RPS/D/T-60                  | <br>EPP-100<br>EPS-120<br>RPS-120 | <br>EPP-150<br>EPP-200<br>RPS-200<br>LOP-200 | <br>LOP-300                       |                                   |
| 5" x 3" | <br>RD/T-45/65<br>RPS/D/T-75                 | <br>PPT-125<br>RPS/T-160          | <br>EPP-300<br>RPS-300                       | <br>EPP-400<br>RPS-400<br>LOP-400 | <br>EPP-500<br>RPS-500<br>LOP-500 |

※ The LOP series are next-generation PCB-type power supplies offering enhanced performance compared to the EPP-100/150/200/300/400 series.

# MPM Series

## 5~90W Medical Grade PCB-Mounted Module



Spec

## Features

- Universal full range input: 85~264VAC
- Fully isolated plastic case
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Extremely low leakage current
- No load power consumption  $<0.075\sim0.1W$
- EMI class B for class II configuration
- $-40\sim+85^{\circ}C$  wide range working temperature
- Miniature size, high power density
- Provide 110% peak power for 10 secs.
- Glue filling, dustproof, waterproof, shockproof
- No minimum load required
- 3 years warranty

## Models



| Model No.      | MPM-05         | MPM-10         | MPM-15       | MPM-20       |
|----------------|----------------|----------------|--------------|--------------|
| Vout / Iout    | 3.3V, 1.25A    | 3.3V, 2.5A     | 3.3V, 3.5A   | 3.3V, 4.5A   |
|                | 5V, 1A         | 5V, 2A         | 5V, 3A       | 5V, 4A       |
|                | 12V, 0.42A     | 12V, 0.85A     | 12V, 1.25A   | 12V, 1.8A    |
|                | 15V, 0.33A     | 15V, 0.67A     | 15V, 1A      | 15V, 1.4A    |
|                | 24V, 0.23A     | 24V, 0.42A     | 24V, 0.63A   | 24V, 0.9A    |
| Dimension (mm) | 45.7x25.4x21.5 | 45.7x25.4x21.5 | 52.4x27.2x24 | 52.4x27.2x24 |

| Model No.      | MPM-30-x□                                           | MPM-45-x□  | MPM-65-x□                                          | MPM-90-x□  |
|----------------|-----------------------------------------------------|------------|----------------------------------------------------|------------|
| Vout / Iout    | 3.3V, 6A                                            | 5V, 8A     | 5V, 10A                                            | 12V, 6.7A  |
|                | 5V, 6A                                              | 12V, 3.75A | 12V, 5.42A                                         | 15V, 5.67A |
|                | 12V, 2.5A                                           | 15V, 3A    | 15V, 4.33A                                         | 24V, 3.75A |
|                | 15V, 2A                                             | 24V, 1.88A | 24V, 2.71A                                         | 48V, 1.88A |
|                | 24V, 1.3A                                           | 48V, 0.94A | 48V, 1.36A                                         |            |
|                | 48V, 0.63A                                          |            |                                                    |            |
| Dimension (mm) | PCB mounting: 69.5x39x24<br>Screw I/O: 91x39.5x28.5 |            | PCB mounting: 87x52x29.5    Screw I/O: 109x52x33.5 |            |

□ = Blank, ST;    Blank: PCB mounting, ST: Screw terminal style

1~90W Industrial Grade PCB-Mounted Module **IRM Series**

IRM-01/02



IRM-01S/02S



IRM-03



IRM-03S



IRM-05/10



IRM-15/20



IRM-30



IRM-30-xST



IRM-45/60/90



IRM-45/60/90-xST



Spec

## Features

- Universal full range input: 85~305VAC
- Fully isolated plastic case
- No load power consumption <0.075~0.3W
- Miniature size, high power density
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- Isolation Class II
- OVCIII (IRM-30~90)
- EMI BS EN/EN 55032 Class B, without additional components
- Glue filling, dustproof, waterproof, 5G vibration test
- High operating temperature up to +85°C
- Pass LPS
- (Except for IRM45/60-5 & IRM-90)
- PCB, chassis or screw terminal mounting version (IRM-30~90ST)
- 3 years warranty

## Models



| Model No.      | IRM-01             | IRM-02-x□                              | IRM-03-x□                      | IRM-05         | IRM-10       | IRM-15       |
|----------------|--------------------|----------------------------------------|--------------------------------|----------------|--------------|--------------|
| Vout / Iout    | 3.3V, 0~0.3A       | 3.3V, 0~0.6A                           | 3.3V, 0~0.9A                   | 3.3V, 0~1.25A  | 3.3V, 0~2.5A | 3.3V, 0~3.5A |
|                | 5V, 0~0.2A         | 5V, 0~0.4A                             | 5V, 0~0.6A                     | 5V, 0~1A       | 5V, 0~2A     | 5V, 0~3A     |
|                | 9V, 0~0.111A       | 9V, 0~0.222A                           | 9V, 0~0.333A                   | 12V, 0~0.42A   | 12V, 0~0.85A | 12V, 0~1.25A |
|                | 12V, 0~0.083A      | 12V, 0~0.167A                          | 12V, 0~0.25A                   | 15V, 0~0.33A   | 15V, 0~0.67A | 15V, 0~1A    |
|                | 15V, 0~0.067A      | 15V, 0~0.133A                          | 15V, 0~0.2A                    | 24V, 0~0.23A   | 24V, 0~0.42A | 24V, 0~0.63A |
|                | 24V, 0~0.042A      | 24V, 0~0.083A                          | 24V, 0~0.125A                  |                |              |              |
| Dimension (mm) | PCB: 33.7x22.2x15S | PCB: 33.7x22.2x15<br>SMD: 33.7x22.2x16 | PCB: 37x24x15<br>SMD: 37x24x16 | 45.7x25.4x21.5 |              | 52.4x27.2x24 |

□=Blank, S Blank: PCB mounting style S: SMD type

| Model No.      | IRM-20       | IRM-30-x□                                           | IRM-45-x□    | IRM-60-x□                                          | IRM-90x□     |
|----------------|--------------|-----------------------------------------------------|--------------|----------------------------------------------------|--------------|
| Vout / Iout    | 3.3V, 0~4.5A | 5V, 0~6A                                            | 5V, 0~8A     | 5V, 0~10A                                          | 12V, 0~6.7A  |
|                | 5V, 0~4A     | 12V, 0~2.5A                                         | 12V, 0~3.8A  | 12V, 0~5A                                          | 15V, 0~6.23A |
|                | 12V, 0~1.8A  | 15V, 0~2A                                           | 15V, 0~3A    | 15V, 0~4A                                          | 24V, 0~3.75A |
|                | 15V, 0~1.4A  | 24V, 0~1.3A                                         | 24V, 0~1.9A  | 24V, 0~2.5A                                        | 48V, 0~1.88A |
|                | 24V, 0~0.9A  | 48V, 0~0.63A                                        | 48V, 0~0.94A | 48V, 0~1.25A                                       |              |
| Dimension (mm) | 52.4x27.2x24 | PCB mounting: 69.5x39x24<br>Screw I/O: 91x39.5x28.5 |              | PCB mounting: 87x52x29.5<br>Screw I/O: 109x52x33.5 |              |

□=Blank, ST Blank: PCB mounting style ST: Screw terminal style



# RPS Series 30~200W Single Output Medical Grade PCB Type

RPS-30/45/65  
(3"x 2")RPS-120S  
(3"x 2")RPS-60  
(4"x 2")RPS-120  
(4"x 2")RPS-200  
(4"x 2")RPS-75  
(5"x 3")RPS-160  
(5"x 3")

RPS-120/200-x-C

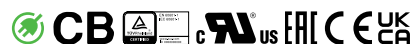


Spec

## Features

- 3" x 2", 4" x 2", 5" x 3" compact size
- Class I or Class II configuration
- Medical safety approved (2xMOPP)
- Built-in Active PFC (RPS-120S/160/200)
- Suitable for BF application with appropriate system consideration
- Extremely low leakage current
- Built-in Power Good/Power Fail signal output (RPS-160)
- Remote voltage compensation function (RPS-160 5~15V)
- No load power consumption < 0.1W~0.75W
- Protections: Short circuit/Overload/Over voltage/Over temp.(120~200W)
- 12V auxiliary output (RPS-120/200)
- 5V/0.8A auxiliary power output (RPSG-160)
- LED indicator for power on (Except for RPS-60)
- 110~125% peak load capability
- 3 years warranty

## Models



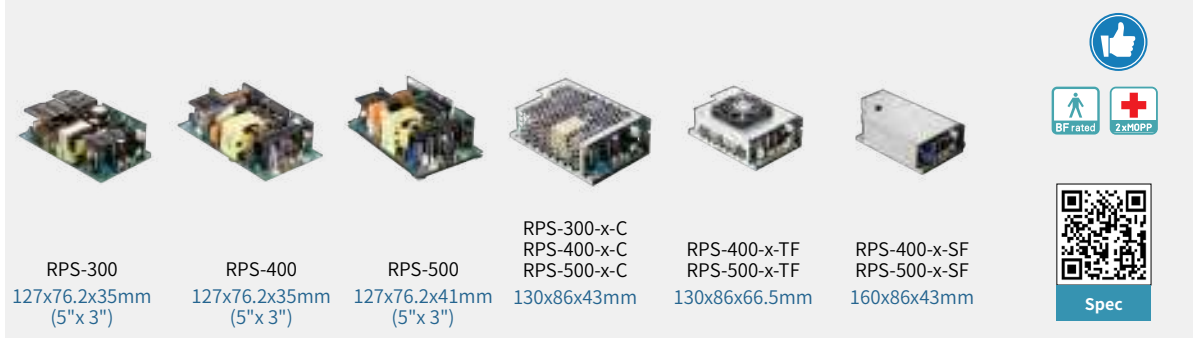
| 3" x 2"        |                                     |                                     |                                     |                                       |
|----------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| Model No.      | RPS-30<br>(Convection/Peak 10 sec.) | RPS-45<br>(Convection/Peak 10 sec.) | RPS-65<br>(Convection/Peak 10 sec.) | RPS-120S<br>(Convection/Peak 10 sec.) |
| Vin            | 80~264VAC                           | 80~264VAC                           | 80~264VAC                           | 80~264VAC                             |
| Vout / Iout    | 3.3V, 6A / 6.6A                     | 3.3V, 8A / 8.8A                     | 3.3V, 10A / 11A                     | 12V, 9.5A / 11.8A                     |
|                | 5V, 6A / 6.6A                       | 5V, 8A / 8.8A                       | 5V, 10A / 11A                       | 15V, 7.6A / 9.5A                      |
|                | 7.5V, 4A / 4.4A                     | 7.5V, 5.4A / 5.95A                  | 7.5V, 8A / 8.8A                     | 24V, 5A / 6.25A                       |
|                | 12V, 2.5A / 2.75A                   | 12V, 3.8A / 4.18A                   | 12V, 5.42A / 5.96A                  | 27V, 4.44A / 5.55A                    |
|                | 15V, 2A / 2.2A                      | 15V, 3A / 3.3A                      | 15V, 4.34A / 4.77A                  | 48V, 2.5A / 3.125A                    |
|                | 24V, 1.25A / 1.375A                 | 24V, 1.9A / 2.1A                    | 24V, 2.71A / 2.98A                  |                                       |
|                | 48V, 0.625A / 0.687A                | 48V, 0.94A / 1.03A                  | 48V, 1.36A / 1.49A                  |                                       |
| Dimension (mm) | 76.2x50.8x24                        | 76.2x50.8x24                        | 76.2x50.8x24                        | 76.2x50.8x28                          |

|                | 4"x 2"                              |                                       |                                       | 5"x 3"                      |                                  |
|----------------|-------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|----------------------------------|
| Model No.      | RPS-60<br>(Convection/Peak 10 sec.) | RPS-120-x□<br>(Convection/10CFM)      | RPS-200-x□<br>(Convection/10CFM)      | RPS-75<br>(Rated / 23.5CFM) | RPS○-160<br>(Convection/20.5CFM) |
| Vin            | 90~264VAC                           | 80~264VAC                             | 80~264VAC                             | 90~264VAC                   | 90~264VAC                        |
| Vout / Iout    | 3.3V, 10A / 11A                     | 12V, 7A / 10A                         | 12V, 11.7A / 16.7A                    | 3.3V, 15A / 20A             | 5V, 20A / 30A                    |
|                | 5V, 10A / 11A                       | 15V, 5.6A / 8A                        | 15V, 9.4A / 13.4A                     | 5V, 14A / 18.7A             | 12V, 9.1A / 12.9A                |
|                | 12V, 5A / 5.5A                      | 24V, 3.5A / 5A                        | 24V, 5.9A / 8.4A                      | 12V, 6.3A / 8.3A            | 15V, 7.3A / 10.3A                |
|                | 15V, 4A / 4.4A                      | 27V, 3.15A / 4.5A                     | 27V, 5.3A / 7.5A                      | 15V, 5A / 6.7A              | 24V, 4.6A / 6.5A                 |
|                | 24V, 2.5A / 2.75A                   | 48V, 1.75A / 2.5A                     | 48V, 3A / 4.2A                        | 24V, 3.2A / 4.2A            | 48V, 2.3A / 3.25A                |
|                | 48V, 1.25A / 1.375A                 |                                       |                                       | 36V, 2.1A / 2.8A            |                                  |
|                |                                     |                                       |                                       | 48V, 1.6A / 2.1A            |                                  |
| Dimension (mm) | 101.6x50.8x29                       | PCB:101.6x50.8x29<br>Case:103.4x62x40 | PCB:101.6x50.8x29<br>Case:103.4x62x40 | 127x76.2x31                 | 127x76.2x34.6                    |

□=Blank, -C Blank:PCB type (standard) -C:Enclosed type (optional)  
 ○=Blank, G Blank:Without 5Vsb G:With 5Vsb & no load power consumption< 0.5W

## 300~500W Single Output Medical Grade PCB Type

## RPS Series



## Features

- 5"×3" compact size
- Built-in Active PFC
- Medical safety approved (2x MOPP)
- Suitable for BF application with appropriate system consideration
- Class I or Class II configuration
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Extremely low leakage current
- Built-in P.G & P.F signal output and remote sense function
- No load power consumption < 0.5W by PS-ON only
- 12V for external FAN supply
- 5V/1A standby output
- LED indicator for power on
- PCB, Enclosed, Enclosed with top FAN / Side FAN
- Various installation options
- 3 years warranty

## Models



| Model No.   | 5"×3"                                |                                  |                                  |
|-------------|--------------------------------------|----------------------------------|----------------------------------|
|             | RPS-300-x○<br>(Convection / 20.5CFM) | RPS-400-x□<br>(Convection/25CFM) | RPS-500-x□<br>(Convection/25CFM) |
| Vout / Iout | 12V, 16.67A / 25A                    | 12V, 20.8A / 33.3A               | 12V, 26.7A / 41.6A               |
|             | 15V, 13.33A / 20A                    | 15V, 16.7A / 26.7A               | 15V, 21.3A / 33.3A               |
|             | 24V, 8.33A / 12.5A                   | 18V, 13.9A / 22.3A               | 18V, 17.8A / 27.8A               |
|             | 27V, 7.4A / 11.12A                   | 24V, 10.5A / 16.7A               | 24V, 13.4A / 20.8A               |
|             | 48V, 4.17A / 6.25A                   | 27V, 9.3A / 14.9A                | 27V, 11.9A / 18.5A               |
|             |                                      | 36V, 7A / 11.2A                  | 36V, 8.9A / 13.9A                |
|             |                                      | 48V, 5.3A / 8.4A                 | 48V, 6.7A / 10.4A                |

○=Blank, -C Blank: PCB type -C: Enclosed type

□=Blank, -C, TF, SF Blank: PCB type -C: Enclosed type TF: Enclosed type with fan on the top

SF: Enclosed type with fan on the side

# RPD/T & MPQ Series

## 2~4 Output Medical Grade PCB Type



RPD/T-60  
101.6x50.8x29mm  
(4"x2")



RPD/T-75  
127x76.2x31mm  
(5"x3")



RPT-160  
127x76.2x34.6mm  
(5"x3")



RPT-160-C  
127x76.2x34.6mm  
(Optional)



MPQ-200  
177.8x107.2x35.5mm  
(7"x 4.2")



Spec

## Features

- 4"x 2", 5"x 3" Compact Size
- Class I or Class II configuration
- Medical safety approved (2xMOPP)
- Built-in Active PFC (RPT-160, MPQ-200)
- Suitable for BF application
- Extremely low leakage current
- Built-in P.G & P.F signal output (RPT-160)
- No load power consumption <0.1W~0.75W
- Protections: Short circuit/Overload/Over voltage/Over temp. (RPT-160/MPQ-200)
- 5V/0.8A standby output (RPTG-160)
- LED indicator for power on (Only RPT-160/MPQ-200)
- 3 years warranty

## Models

### Dual Output



| Model No.   | Output Number | RPD-60A       | RPD-60B        | RPD-75A     | RPD-75B       |
|-------------|---------------|---------------|----------------|-------------|---------------|
| Vout / Iout | CH1           | 5V, 0.5~5.5A  | 5V, 0.5~3.85A  | 5V, 1~9.5A  | 5V, 1~6.8A    |
|             | CH2           | 12V, 0.1~2.2A | 24V, 0.1~1.65A | 12V, 0.3~4A | 24V, 0.2~2.7A |

### Triple Output

| Model No.   | Output Number | RPT-60A        | RPT-60B         | RPT-60C         | RPT-60D        | RPT-6003       |
|-------------|---------------|----------------|-----------------|-----------------|----------------|----------------|
| Vout / Iout | CH1           | 5V, 0.5~4.4A   | 5V, 0.5~4.4A    | 5V, 0.5~4.4A    | 5V, 0.5~3.85A  | 3.3V, 0.5~5.5A |
|             | CH2           | 12V, 0.1~2.2A  | 12V, 0.1~2.2A   | 15V, 0.1~0.65A  | 24V, 0.1~1.1A  | 5V, 0.3~3.3A   |
|             | CH3           | -5V, 0.1~0.55A | -12V, 0.1~0.55A | -15V, 0.1~0.55A | 12V, 0.1~0.55A | 12V, 0.1~0.77A |

| Model No.   | Output Number | RPT-75A     | RPT-75B      | RPT-75C      | RPT-75D     | RPT-7503     |
|-------------|---------------|-------------|--------------|--------------|-------------|--------------|
| Vout / Iout | CH1           | 5V, 0.6~8A  | 5V, 0.6~8A   | 5V, 0.6~8A   | 5V, 0.6~7A  | 3.3V, 0.7~7A |
|             | CH2           | 12V, 0.2~4A | 12V, 0.2~4A  | 15V, 0.1~3A  | 24V, 0.1~2A | 5V, 0~8A     |
|             | CH3           | -5V, 0.1~1A | -12V, 0.1~1A | -15V, 0.1~1A | 12V, 0.1~1A | 12V, 0~1.5A  |

| Model No.   | Output Number | RPT□-160A○    | RPT□-160B○   | RPT□-160C○    | RPT□-160D○     |
|-------------|---------------|---------------|--------------|---------------|----------------|
| Vout / Iout | CH1           | 5V, 0.6~14A   | 5V, 0.6~14A  | 5V, 0.6~14A   | 5V, 0.3~11A    |
|             | CH2           | 12V, 0.2~5.5A | 12V, 0.2~5A  | 15V, 0.1~3.6A | 12V, 0.2~5A    |
|             | CH3           | -5V, 0.1~1A   | -12V, 0.1~1A | -15V, 0.1~1A  | 24V, 0.15~1.2A |

□=Blank, G Blank: basic function G: with 5Vsb/0.8A & no load power consumption < 0.75W

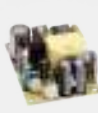
○=Blank, -C Blank: PCB type (standard) -C: Enclosed type (optional)

### Quad Output

| Model No.   | Output Number | MPQ-200B      | MPQ-200C     | MPQ-200D      | MPQ-200F      |
|-------------|---------------|---------------|--------------|---------------|---------------|
| Vout / Iout | CH1           | 5V, 3~18A     | 5V, 3~18A    | 5V, 3~18A     | 5V, 3~18A     |
|             | CH2           | 12V, 0.7~8.4A | 15V, 0.5~6A  | 24V, 0.3~3.6A | 24V, 0.3~3.3A |
|             | CH3           | -5V, 0~2.4A   | -5V, 0~2.4A  | 12V, 0~2.4A   | 15V, 0~2.4A   |
|             | CH4           | -12V, 0~2.4A  | -15V, 0~2.4A | -12V, 0~2.4A  | -15V, 0~2.4A  |

## 15~120W Single Output Industrial PCB Type

## EPS/EPP Series

EPS-15  
(2.5"x1.8")EPS-25/35  
(3"x2")EPS-45S/65S  
(3"x2")EPP-120S  
(3"x2")EPS-45/65  
(4"x2")EPS-45-x-C  
EPS-65-x-C  
(4"x2")EPS-120  
(4"x2")

Spec

## ■ EPS Features

- Universal AC input/Full range
- No load power consumption  $< 0.1 \sim 0.3W$
- Provide 110% peak power for 10 secs.
- **Compact size**, 1U low profile
- Cooling by free air convection
- Protections: Short circuit/Overload/Over voltage
- Class I or Class II installations
- $-30 \sim +70^{\circ}C$  wide range of operating temp.
- 12V/0.5A for external FAN supply (EPS-120)
- LED indicator for power on (Except for EPS-15)
- Optional Enclosed type (EPS-45/65-C)
- 3 years warranty

## ■ EPP-120S Features

- **120W convection**, 150w peak(10sec.)
- EMI for both **Class I or Class II** configuration
- $-30 \sim +85^{\circ}C$  wide range operating temp.
- No load power consumption  $< 0.3W$
- High efficiency up to 94%
- Protections: Short circuit/Overload/ Over voltage/Over temp.
- Operating altitude up to 5000 meters
- 3 years warranty

## ■ Models



|                | 2.5"x1.8"     | 3"x2"        |              |              |              |
|----------------|---------------|--------------|--------------|--------------|--------------|
| Model No.      | EPS-15        | EPS-25       | EPS-35       | EPS-45S      | EPS-65S      |
| Vin            | 85~264VAC     | 85~264VAC    | 85~264VAC    | 80~264VAC    | 80~264VAC    |
| Vout / Iout    | 3.3V, 0~3A    | 3.3V, 0~5A   | 3.3V, 0~6A   | 3.3V, 0~8A   | 3.3V, 0~10A  |
|                | 5V, 0~3A      | 5V, 0~5A     | 5V, 0~6A     | 5V, 0~8A     | 5V, 0~10A    |
|                | 7.5V, 0~2A    | 7.5V, 0~3.4A | 7.5V, 0~4.7A | 7.5V, 0~5.4A | 7.5V, 0~8A   |
|                | 12V, 0~1.25A  | 12V, 0~2.1A  | 12V, 0~3A    | 12V, 0~3.8A  | 12V, 0~5.42A |
|                | 15V, 0~1A     | 15V, 0~1.7A  | 15V, 0~2.4A  | 15V, 0~3A    | 15V, 0~4.34A |
|                | 24V, 0~0.625A | 24V, 0~1.05A | 24V, 0~1.5A  | 24V, 0~1.9A  | 24V, 0~2.71A |
|                | 27V, 0~0.56A  | 27V, 0~0.95A | 27V, 0~1.3A  | 48V, 0~0.94A | 48V, 0~1.36A |
|                | 36V, 0~0.42A  | 36V, 0~0.7A  | 36V, 0~1A    |              |              |
|                | 48V, 0~0.313A | 48V, 0~0.53A | 48V, 0~0.75A |              |              |
| Dimension (mm) | 63.5x45.7x24  | 76.2x50.8x24 | 76.2x50.8x24 | 76.2x50.8x24 | 76.2x50.8x24 |

|                | 4"x2"                                 |            | 3"x2"         |                                       |
|----------------|---------------------------------------|------------|---------------|---------------------------------------|
| Model No.      | EPS-45-x□                             | EPS-65-x□  | EPS-120       | EPP-120S<br>(Convection/Peak 10 sec.) |
| Vin            | 90~264VAC                             | 90~264VAC  | 80~264VAC     | 80~264VAC                             |
| Vout / Iout    | 3.3V, 8A                              | 3.3V, 11A  | 12V, 7A       | 12V, 9.5A / 11.8A                     |
|                | 5V, 8A                                | 5V, 11A    | 15V, 5.6A     | 15V, 7.6A / 9.5A                      |
|                | 7.5V, 5.4A                            | 7.5V, 8A   | 24V, 3.5A     | 24V, 5A / 6.25A                       |
|                | 12V, 3.75A                            | 12V, 5.42A | 27V, 3.15A    | 27V, 4.44A / 5.55A                    |
|                | 15V, 3A                               | 15V, 4.34A | 48V, 1.75A    | 48V, 2.5A / 3.125A                    |
|                | 24V, 1.9A                             | 24V, 2.71A |               |                                       |
|                | 36V, 1.25A                            | 36V, 1.81A |               |                                       |
|                | 48V, 1A                               | 48V, 1.36A |               |                                       |
| Dimension (mm) | PCB:101.6x50.8x29 ; Case: 103.4x62x37 |            | 101.6x50.8x29 | 76.2x50.8x28                          |

□=Blank, -C Blank:PCB type -C:Enclosed type

# LOP Series 200~600W Low Profile Single Output PCB Type with PFC



LOP-200  
(4"x2")

LOP-300  
(4"x2")

LOP-400  
(5"x3")

LOP-500  
(5"x3")

LOP-600  
(5"x3")



Spec

## Features

- 80~264VAC input, with PFC function
- No load power consumption < 0.5W
- 150% peak power capability
- Class I or Class II installation
- High efficiency up to 95%
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Ultra low profile design (25.4~33.5mm)
- -40~+80°C wide range of operating temp.
- OVC III
- Operating altitude up to 5000 meters
- IEC/EN/UL 62368-1, 60601-1, IEC/EN 60335-1, 61558 & CCC GB4943.1 approved
- 3 years warranty

## Models



| 4"x2"           |                                               |                                               |
|-----------------|-----------------------------------------------|-----------------------------------------------|
| Model No.       | LOP-200<br>(Convection/10.98 CFM/Peak 3 sec.) | LOP-300<br>(Convection/10.98 CFM/Peak 3 sec.) |
| Vout / Iout     | 12V, 11.7A/16.7A/25A                          | 12V, 15A/25A/37.5A                            |
|                 | 15V, 9.4A/13.4A/20A                           | 15V, 12A/20A/30A                              |
|                 | 18V, 7.8A/11.1A/16.7A                         | 18V, 10A/16.7A/25A                            |
|                 | 24V, 5.9A/8.4A/12.5A                          | 24V, 7.5A/12.5A/18.8A                         |
|                 | 27V, 5.3A/7.5A/11.1A                          | 27V, 6.7A/11.1A/16.7A                         |
|                 | 36V, 3.9A/5.6A/8.3A                           | 30V, 6A/10A/15A                               |
|                 | 48V, 3A/4.2A/6.3A                             | 36V, 5A/8.3A/12.5A                            |
|                 | 54V, 2.7A/3.8A/5.6A                           | 48V, 3.8A/6.3A/9.4A                           |
| Dimension (mm)  |                                               |                                               |
| 101.6x50.8x25.4 |                                               |                                               |

| 5"x3"                                               |                                            |                                            |                                            |
|-----------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Model No.                                           | LOP-400<br>(Convection/23 CFM/Peak 3 sec.) | LOP-500<br>(Convection/23 CFM/Peak 3 sec.) | LOP-600<br>(Convection/23 CFM/Peak 3 sec.) |
| Vout / Iout                                         | 12V, 20.8A/33.3A/50A                       | 12V, 25A/41.6A/62.5A                       | 12V, 30A/50A/75A                           |
|                                                     | 15V, 16.7A/26.7A/40A                       | 15V, 20A/33.3A/50A                         | 15V, 24A/40A/60A                           |
|                                                     | 18V, 13.9A/22.2A/33.3A                     | 18V, 16.7A/27.8A/41.7A                     | 18V, 20A/33.3A/50A                         |
|                                                     | 24V, 10.5A/16.7A/25A                       | 24V, 13.4A/20.8A/31.3A                     | 24V, 16.7A/25A/37.5A                       |
|                                                     | 27V, 9.3A/14.9A/22.2A                      | 27V, 11.9A/18.5A/27.8A                     | 27V, 14.8A/22.3A/33.3A                     |
|                                                     | 36V, 7A/11.2A/16.7A                        | 36V, 8.9A/13.9A/20.8A                      | 36V, 11.1A/16.7A/25A                       |
|                                                     | 48V, 5.3A/8.4A/12.5A                       | 48V, 6.7A/10.4A/15.6A                      | 48V, 8.3A/12.5A/18.8A                      |
|                                                     | 54V, 4.6A/7.4A/11.1A                       | 54V, 5.9A/9.3A/13.9A                       | 54V, 7.4A/11.2A/16.7A                      |
| Dimension (mm)                                      |                                            |                                            |                                            |
| 127x76.2x27.5      127x76.2x30.5      127x76.2x33.5 |                                            |                                            |                                            |

※ The pricing and performance of LOP-200/300/400/500/600 series are better than EPP-100/150/200/300/400/500 series, it is highly recommended to use LOP series for new project.

50~150W Single Output Industrial PCB Type

# LPS/ELP/LPP Series



LPS-50

LPS-75

ELP-75

LPS-100

LPP-100

LPP-150



Spec

## Features

- Universal AC input/Full range
- Built-in Active PFC (LPP-100/150,ELP-75)
- Protections: Short circuit/Overload/Over voltage
- Optional over temperature protection(LPP-150)
- Built-in remote ON-OFF control(LPS-50/75)
- Cooling by free air convection
- 2 years warranty (LPS Series)
- 3 years warranty (LPP,ELP Series)

## Models



| Model No.      | LPS-50      | LPS-75       | ELP-75     | LPS-100                | LPP-100       | LPP-150        |
|----------------|-------------|--------------|------------|------------------------|---------------|----------------|
| Vin            | 90~264VAC   | 90~264VAC    | 90~264VAC  | 115/230<br>auto switch | 85~264VAC     | 85~264VAC      |
| Vout / Iout    | 3.3V, 0~10A | 3.3V, 0~15A  | 3.3V, 15A  | 3.3V, 0~20A            | 3.3V, 0~20A   | 3.3V, 0~30A    |
|                | 5V, 0~10A   | 5V, 0~15A    | 5V, 15A    | 5V, 0~20A              | 5V, 0~20A     | 5V, 0~30A      |
|                | 12V, 0~4.2A | 12V, 0~6.2A  | 12V, 6.25A | 7.5V, 0~13.3A          | 7.5V, 0~13.5A | 7.5V, 0~20A    |
|                | 15V, 0~3.4A | 15V, 0~5.0A  | 15V, 5A    | 12V, 0~8.4A            | 12V, 0~8.5A   | 12V, 0~12.5A   |
|                | 24V, 0~2.1A | 24V, 0~3.2A  | 24V, 3.15A | 13.5V, 0~7.5A          | 13.5V, 0~7.5A | 13.5V, 0~11.2A |
|                | 48V, 0~1.1A | 48V, 0~1.56A | 36V, 2.1A  | 15V, 0~6.7A            | 15V, 0~6.7A   | 15V, 0~10A     |
|                |             |              | 48V, 1.6A  | 24V, 0~4.2A            | 24V, 0~4.2A   | 24V, 0~6.3A    |
|                |             |              |            | 27V, 0~3.8A            | 27V, 0~3.8A   | 27V, 0~5.6A    |
|                |             |              |            | 48V, 0~2.1A            | 48V, 0~2.1A   | 48V, 0~3.2A    |
| Dimension (mm) | 195x55x23   | 222x55x30    | 175x60x27  | 222x62x32              | 222x62x33.6   | 222x75x41      |

# PD/RPD/PID Series

25~250W Dual Output Industrial PCB Type



PD-25  
(4.2"x2.4")



PD-45  
(5"x3")



PD-65  
(5"x3")



RPD-65  
(5"x3")



PID-250  
(8.7"x3.7")



Spec

## Features

- Universal AC input/Full range: 90~264VAC
- Built-in active PFC function (PID-250)
- Cooling by free air convection(Except for PID-250)
- Protections:Short circuit/Overload/  
Over voltage(Only PID-250)/Over temp.
- 2 years warranty  
3 years warranty (PID-250)

## Models



| Model No.      | Output Number | PD-25A        | PD-25B      | PD-2505       | PD-2512        | PD-2515      |
|----------------|---------------|---------------|-------------|---------------|----------------|--------------|
| Vout / Iout    | CH1           | 5V, 0.2~2.5A  | 5V, 0.2~2A  | 5V, 0.1~3A    | 12V, 0.1~1.2A  | 15V, 0.1~1A  |
|                | CH2           | 12V, 0.1~1.5A | 24V, 0.1~1A | -5V, 0.1~2.5A | -12V, 0.1~1.2A | -15V, 0.1~1A |
| Dimension (mm) |               | 107x61x28     |             |               |                |              |

| Model No.      | Output Number | PD-45A        | PD-45B        | PD-65A        | PD-65B        | RPD-65C     | RPD-65D     |
|----------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|
| Vout / Iout    | CH1           | 5V, 0.4~5A    | 5V, 0.4~5A    | 5V, 0.4~7A    | 5V, 0.4~6.0A  | 12V, 0~5.8A | 24V, 0~2.9A |
|                | CH2           | 12V, 0.2~2.5A | 24V, 0.2~1.8A | 12V, 0.2~3.2A | 24V, 0.2~2.6A | 5V, 0~1.5A  | 5V, 0~1.5A  |
| Dimension (mm) |               | 127x76x28     |               | 127x76x42     |               | 127x76x29   |             |

| Model No.      | Output Number | PID-250A   | PID-250B    | PID-250C    | PID-250D    |
|----------------|---------------|------------|-------------|-------------|-------------|
| Vout / Iout    | CH1           | 12V, 0~15A | 24V, 0~9.4A | 36V, 0~6.3A | 48V, 0~4.7A |
|                | CH2           | 5V, 0~5A   | 5V, 0~5A    | 5V, 0~5A    | 5V, 0~5A    |
| Dimension (mm) |               | 222x95x40  |             |             |             |

PT-45  
(5"x3")PT-65  
(5"x3")PT-6503  
(5"x3")RPT-65  
(5"x3")PPT-125  
(5"x3")

Spec

## Features

- Universal AC input/Full range:90~264VAC
- Built-in Active PFC function (PPT-125)
- Optional L-bracket and cover (RPT-65 Series)
- Low leakage current<1mA (RPT-65 Series)
- PWM control and regulated (PPT-125)
- Protections:Short circuit/Overload/Over voltage (Except for RPT Series)/Over temp.(Except for PT Series)
- 2 years warranty
- 3 years warranty (PPT-125)

## Models

### 5"x3" Triple Output



| Model No.      | Output Number | PT-45A        | PT-45B        | PT-45C        |
|----------------|---------------|---------------|---------------|---------------|
| Vout / Iout    | CH1           | 5V, 0.4~5A    | 5V, 0.4~5A    | 5V, 0.4~5A    |
|                | CH2           | 12V, 0.2~2.5A | 12V, 0.2~2.5A | 15V, 0.2~2.3A |
|                | CH3           | -5V, 0~0.5A   | -12V, 0~0.5A  | -15V, 0~0.5A  |
| Dimension (mm) |               | 127x76x28     |               |               |

| Model No.      | Output Number | PT-65A        | PT-65B        | PT-65C        | PT-65D        | PT-6503     |
|----------------|---------------|---------------|---------------|---------------|---------------|-------------|
| Vout / Iout    | CH1           | 5V, 0.4~7A    | 5V, 0.4~7A    | 5V, 0.4~7A    | 5V, 0.5~5A    | 3.3V, 0~7A  |
|                | CH2           | 12V, 0.2~3.2A | 12V, 0.2~3.2A | 15V, 0.2~2.6A | 12V, 0.2~4A   | 5V, 0.2~10A |
|                | CH3           | -5V, 0~0.7A   | -12V, 0~0.7A  | -15V, 0~0.7A  | 24V, 0.2~1.3A | 12V, 0~1.2A |
| Dimension (mm) |               | 127x76x42     |               |               |               |             |

| Model No.      | Output Number | RPT-65E        | RPT-65F        | RPT-65G        |
|----------------|---------------|----------------|----------------|----------------|
| Vout / Iout    | CH1           | 12V, 0.18~5.8A | 12V, 0.18~5.8A | 24V, 0.09~2.9A |
|                | CH2           | 5V, 0~1.5A     | 5V, 0~1.5A     | 5V, 0~1.5A     |
|                | CH3           | -5V, 0~0.7A    | -12V, 0~0.7A   | 12V, 0~0.7A    |
| Dimension (mm) |               | 127x76x29      |                |                |

| Model No.      | Output Number | PPT-125A        | PPT-125B         | PPT-125C         | PPT-125D        |
|----------------|---------------|-----------------|------------------|------------------|-----------------|
| Vout / Iout    | CH1           | 3.3V, 1~12.5A   | 5V, 1~14.38A     | 5V, 1~13.75A     | 5V, 1~8.75A     |
|                | CH2           | 5V, 0.8~10A     | 12V, 0.3~3.75A   | 15V, 0.25~3.13A  | 24V, 0.25~3.13A |
|                | CH3           | 12V, 0.05~0.63A | -12V, 0.05~0.63A | -15V, 0.05~0.63A | 12V, 0.05~0.63A |
| Dimension (mm) |               | 127x76.2x34.6   |                  |                  |                 |



# GST Series

18~360W Global Certified  
Industrial Grade Green Adaptor (Desktop Type)



GST18/25A  
93x54x36mm



GST18/25/36B  
79x54x33mm



GST18/25/36U  
79x54x33mm



GST18/25/36E  
79x54x33mm



GST40/60A  
125x50x31.5mm



GST90A  
145x60x32mm



GST120A  
167x67x35mm



GST160A  
175x72x35mm



GST220A  
210x85x46mm



GST280A/360A/360B  
220x95x46mm



Spec

## Features

- Global Certified
- No load power consumption <0.075W~0.5W
- 450W peak power for 3 sec.(GST360 only)
- Energy efficiency Level VI
- Complies with EISA 2007/DoE,NRCAN,Korea K-MEPS, AU/NZ MEPS,EU ErP & CoC Version 5
- 3 pole IEC320-C14 AC inlet (A-Type)
- 2 pole AC inlet (B/E/U-Type)
- Class I power unit ( $\geq 40W$ )
- Fanless design with  $-30^{\circ}\sim+70^{\circ}C$  wide range working temp.
- Protections: Short circuit/Overload/Over voltage/Over temp.( $\geq 60W$ )
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS( $\leq 60W$ )
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.50)

## Models



| Model No.   | GST18□        | GST25□        | GST36□       | GST40A        | GST60A       | GST90A       |
|-------------|---------------|---------------|--------------|---------------|--------------|--------------|
| Vin         | 85~264VAC     | 85~264VAC     | 85~264VAC    | 90~264VAC     | 90~264VAC    | 90~264VAC    |
| Vout / Iout | 5V, 0~3A      | 5V, 0~4A      | 5V, 0~4.3A   | 5V, 0~5A      | 5V, 0~6A     | 12V, 0~6.67A |
|             | 7.5V, 0~2A    | 7.5V, 0~2.93A | 9V, 0~3.11A  | 7.5V, 0~5.34A | 7.5V, 0~6A   | 15V, 0~6A    |
|             | 9V, 0~2A      | 9V, 0~2.55A   | 12V, 0~3A    | 9V, 0~4.45A   | 9V, 0~6A     | 19V, 0~4.74A |
|             | 12V, 0~1.5A   | 12V, 0~2.08A  | 24V, 0~1.5A  | 12V, 0~3.34A  | 12V, 0~5A    | 24V, 0~3.75A |
|             | 15V, 0~1.2A   | 15V, 0~1.66A  | 48V, 0~0.75A | 15V, 0~2.67A  | 15V, 0~4A    | 48V, 0~1.87A |
|             | 18V, 0~1A     | 18V, 0~1.38A  |              | 18V, 0~2.22A  | 18V, 0~3.33A |              |
|             | 24V, 0~0.75A  | 24V, 0~1.04A  |              | 24V, 0~1.67A  | 24V, 0~2.5A  |              |
|             | 28V, 0~0.64A  | 28V, 0~0.89A  |              | 48V, 0~0.84A  | 48V, 0~1.25A |              |
|             | 48V, 0~0.375A | 48V, 0~0.52A  |              |               |              |              |

□=A(except 36W) / B / U / E Class I —A: IEC320-C14 Class II —B: IEC320-C8 , U: American 2P E: European 2P

| Model No.   | GST120A     | GST160A      | GST220A      | GST280A       | GST360A      | GST360B      |
|-------------|-------------|--------------|--------------|---------------|--------------|--------------|
| Vin         | 85~264VAC   | 85~264VAC    | 85~264VAC    | 85~264VAC     | 85~264VAC    | 85~264VAC    |
| Vout / Iout | 12V, 0~8.5A | 12V, 0~11.5A | 12V, 0~15A   | 12V, 0~21A    | 12V, 0~27.5A | 12V, 0~27.5A |
|             | 15V, 0~7A   | 15V, 0~9.6A  | 15V, 0~13.4A | 15V, 0~17A    | 15V, 0~22.7A | 15V, 0~22.7A |
|             | 20V, 0~6A   | 20V, 0~8A    | 20V, 0~11A   | 20V, 0~13A    | 24V, 0~15A   | 24V, 0~15A   |
|             | 24V, 0~5A   | 24V, 0~6.67A | 24V, 0~9.2A  | 24V, 0~11.67A | 36V, 0~10A   | 36V, 0~10A   |
|             | 48V, 0~2.5A | 36V, 0~4.44A | 36V, 0~6.1A  | 48V, 0~5.84A  | 48V, 0~7.5A  | 48V, 0~7.5A  |
|             |             | 48V, 0~3.34A | 48V, 0~4.6A  |               | 55V, 0~6.55A | 55V, 0~6.55A |

## 25W/50W Triple Output Industrial Grade Green Adaptor (Desktop Type)

## GP Series



GP25A  
107.5x67x36mm



GP25B  
107.5x67x36mm



GP50A  
146x75.5x43mm



Spec

### Features

- Universal AC input/Full range: 90~264VAC
- No load power consumption <0.3W
- Energy efficiency Level VI
- Complies with EISA 2007/DoE & EU ErP
- -20~+70°C wide range working temp.
- Class I power unit (with earth pin) for A type; Class II power unit (without earth pin) for B type
- Fully enclosed plastic case
- LED indicator for power on
- Dual output available (Optional)
- 3 years warranty

### Models

#### Triple Output



| Model No.   | Output Number | GP25□13A      | GP25□13D       | GP25□14E       |
|-------------|---------------|---------------|----------------|----------------|
| Vout / Iout | CH1           | 5V, 0.5~2.5A  | 5V, 0.5~2.5A   | 5V, 0.5~2.5A   |
|             | CH2           | 12V, 0.2~1.2A | 12V, 0.2~1A    | 15V, 0.1~0.8A  |
|             | CH3           | -5V, 0.1~0.3A | -12V, 0.1~0.3A | -15V, 0.1~0.3A |

| Model No.   | Output Number | GP50A13A      | GP50A13D       | GP50A14E       | GP50A58F (Optional) |
|-------------|---------------|---------------|----------------|----------------|---------------------|
| Vout / Iout | CH1           | 5V, 0~4A      | 5V, 0~4A       | 5V, 0~4A       | 16V, 0.4~2A         |
|             | CH2           | 12V, 0.3~2A   | 12V, 0.3~2A    | 15V, 0.3~1.5A  | 48V, 30~150mA       |
|             | CH3           | -5V, 0.1~0.5A | -12V, 0.1~0.5A | -15V, 0.1~0.5A | -16V, 0.4~2A        |

□=A / B; A: IEC 320-C14 / Class I, B: IEC 320-C8 / Class II

# GSM Series

## 40~220W Medical Grade Green Adaptor (Desktop Type)



Spec

## Features

- Universal AC input/Full range: 80~264VAC
- **Medical safety approved (2xMOPP)**
- Suitable for **BF** application with appropriate system consideration(Except for A-Type)
- **Extremely low leakage current**
- No load power consumption <0.075~0.3W
- **Energy efficiency VI** (GSM06, GSM18/25 5~9V for Level V)
- Fully enclosed plastic case
- A-Type Class I power (with earth pin)
- B-Type Class II power(without earth pin)
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Working temperature up to **+70°C**
- LED indicator for power on(Except for GSM06/12)
- Protections: Short circuit/Overload/Over voltage/Over temp.
- **3 years warranty**
- **Various DC plugs & accessories available** (Refer to P.50)

## Models



| Model No.      | GSM40□            | GSM60□            | GSM90□            |
|----------------|-------------------|-------------------|-------------------|
| Vout / Iout    | 5V, 0.1~5A        | 5V, 0.1~6A        | 12V, 0~6.67A      |
|                | 7.5V, 0.1~5.34A   | 7.5V, 0.1~6A      | 15V, 0~6A         |
|                | 9V, 0.1~4.45A     | 9V, 0.1~6A        | 19V, 0~4.74A      |
|                | 12V, 0.1~3.34A    | 12V, 0.1~5A       | 24V, 0~3.75A      |
|                | 15V, 0.1~2.67A    | 15V, 0.1~4A       | 48V, 0~1.87A      |
|                | 18V, 0.1~2.22A    | 18V, 0.1~3.33A    |                   |
|                | 24V, 0.1~1.67A    | 24V, 0.1~2.5A     |                   |
|                | 48V, 0.1~0.84A    | 48V, 0.1~1.25A    |                   |
| Dimension (mm) | 125x50x31.5       | 125x50x31.5       | 145x60x32         |
|                | □=A / B (Desktop) | □=A / B (Desktop) | □=A / B (Desktop) |

A: IEC320-C14 / Class I    B: IEC 320-C8 / Class II

| Model No.      | GSM120□           | GSM160□           | GSM220□           |
|----------------|-------------------|-------------------|-------------------|
| Vout / Iout    | 12V, 0~8.5A       | 12V, 0~11.5A      | 12V, 0~15A        |
|                | 15V, 0~7A         | 15V, 0~9.6A       | 15V, 0~13.4A      |
|                | 20V, 0~6A         | 20V, 0~8A         | 20V, 0~11A        |
|                | 24V, 0~5A         | 24V, 0~6.67A      | 24V, 0~9.2A       |
|                | 48V, 0~2.5A       | 48V, 0~3.34A      | 48V, 0~4.6A       |
| Dimension (mm) | 167x67x35         | 175x72x35         | 210x85x46         |
|                | □=A / B (Desktop) | □=A / B (Desktop) | □=A / B (Desktop) |

□=A / B    A: IEC320-C14 AC / Class I    B: IEC320-C8 AC / Class II

## 18~36W Medical Grade Green Adaptor (Wall-Mounted Type)

## GSM Series



GSM18U/25U



GSM36U



B-Type



E-Type



E-Type



B-Type



Spec

## Features

- Universal AC input/Full range: 80~264VAC
- **Medical safety approved (2xMOPP)**
- Suitable for **BF** application with appropriate system consideration
- Extremely low leakage current
- No load power consumption <0.075~0.3W
- **Energy efficiency Level VI**  
(GSM18/25 5~9V for Level V)
- Fully enclosed plastic case
- Class I (with earth Pin): A-Type
- Class II (without earth Pin): B/U/E-Type
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC Version 5
- High operating temperature up to **+70°C**
- LED indicator for power on
- Protections: Short circuit/Overload/Over voltage/Over temp.
- **3 years warranty**
- Various DC plugs & accessories available (Refer to P.50)

## Models



| Model No.      | GSM18□                            | GSM25□                            | GSM36□                             |
|----------------|-----------------------------------|-----------------------------------|------------------------------------|
| Vout / Iout    | 5V, 0~3A                          | 5V, 0~4A                          | 5V, 0~4.5A                         |
|                | 7.5V, 0~2A                        | 7.5V, 0~2.93A                     | 7.5V, 0~4.32A                      |
|                | 9V, 0~2A                          | 9V, 0~2.77A                       | 9V, 0~4A                           |
|                | 12V, 0~1.5A                       | 12V, 0~2.08A                      | 12V, 0~3A                          |
|                | 15V, 0~1.2A                       | 15V, 0~1.66A                      | 15V, 0~2.4A                        |
|                | 18V, 0~1A                         | 18V, 0~1.38A                      | 18V, 0~2A                          |
|                | 24V, 0~0.75A                      | 24V, 0~1.04A                      | 24V, 0~1.5A                        |
|                | 48V, 0~0.375A                     | 48V, 0~0.52A                      | 48V, 0~0.75A                       |
| Dimension (mm) | 79x54x33                          | 79x54x33                          | 79x54x33                           |
|                | □=B(Desktop)<br>U/E(Wall-mounted) | □=B(Desktop)<br>U/E(Wall-mounted) | □=B (Desktop)<br>U/E(Wall-mounted) |

U: American 2P E: European 2P B: IEC320-C8

\*USB Type: 5V output only

※ The pricing and performance of NGE series are better than GSM-U/E series  
It is highly recommended to use NGE series for new project.

# NGE Series

12~90W AC Interchangeable Medical/ITE/Household Green Adaptor (Wall-Mounted Type)



NGE12  
NGE18  
NGE30  
NGE45  
NGE65  
NGE90



Spec

## Features

- Interchangeable AC plugs (US, UK, EU, AU, CN, KR, IN plug convertible)
- Universal AC input/Full range: 80~264VAC
- Global certificates in multi-fields: ITE 62368-1, Medical 60601-1, Industrial 61558-1, Household 60335-1 safety approved
- Extremely low leakage current <100µA
- Suitable for BF application with appropriate system consideration
- Ultra slim design (28~30mm)
- No load power consumption <0.075~0.1W
- Energy efficiency Level VI
- Complies with EISA 2007/DoE, EU ErP & CoC Version 5
- -30~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage
- IP21 Level
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.50)

## Models

| Model No.      | NGE12         | NGE18        | NGE30        | NGE45        | NGE65        | NGE90        |
|----------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Vout / Iout    | 5V, 0~2.4A    | 5V, 0~3A     | 5V, 0~4A     | 5V, 0~5.63A  | 5V, 0~7A     | 12V, 0~6A    |
|                | 9V, 0~1.33A   | 9V, 0~2A     | 9V, 0~3.33A  | 9V, 0~4.5A   | 9V, 0~5.96A  | 15V, 0~6A    |
|                | 12V, 0~1A     | 12V, 0~1.5A  | 12V, 0~2.5A  | 12V, 0~3.75A | 12V, 0~4.88A | 18V, 0~5A    |
|                | 15V, 0~0.8A   | 15V, 0~1.2A  | 15V, 0~2A    | 15V, 0~3A    | 15V, 0~4.34A | 24V, 0~3.75A |
|                | 18V, 0~0.83A  | 18V, 0~1A    | 18V, 0~1.66A | 18V, 0~2.5A  | 18V, 0~3.62A | 48V, 0~1.85A |
|                | 24V, 0~0.625A | 24V, 0~0.75A | 24V, 0~1.25A | 24V, 0~1.88A | 24V, 0~2.71A | 55V, 0~1.64A |
|                |               |              | 48V, 0~0.63A | 48V, 0~0.94A | 48V, 0~1.36A |              |
| Dimension (mm) | 48x28x55      |              | 62x30x65     |              |              | 62x30x85     |

※Two output connectors: P1J and USB available for NGE12 x 05

## Interchangeable AC Plug Specifically for NGE 12I~90I Series

|             |                                                                             |    |    |    |    |    |    |                                                                             |                                                                             |
|-------------|-----------------------------------------------------------------------------|----|----|----|----|----|----|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Model NO.   | NGE12Ixx-□<br><input type="checkbox"/> =P1J<br><input type="checkbox"/> USB |    |    |    |    |    |    | NGE12Exx-□<br><input type="checkbox"/> =P1J<br><input type="checkbox"/> USB | NGE12Uxx-□<br><input type="checkbox"/> =P1J<br><input type="checkbox"/> USB |
| AC plug     | Interchangeable Type                                                        |    |    |    |    |    |    | Non-Interchangeable Type                                                    |                                                                             |
|             | EU                                                                          | US | UK | AU | CN | KR | IN |                                                                             |                                                                             |
| Certificate | CB >DEKRA<br>ENEC CE UK CA FC                                               |    |    |    |    |    |    | CB >DEKRA<br>ENEC CE                                                        | CB >DEKRA<br>ENEC CE                                                        |

## 100W High Reliable Universal 4-Port USB PD Type-C Fast Charger

## NGE Series

NGE100  
(Universal Version)NGE100U  
(US Version)

Spec

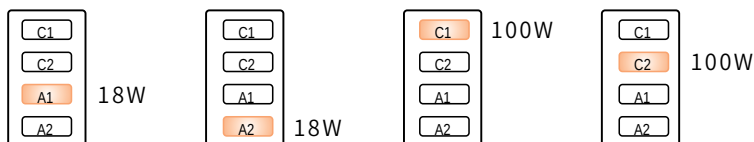
## Features

- Interchangeable AC plugs  
(US, UK, EU, AU, CN, KR, IN plug convertible)
- Universal AC input/Full range: 90~264VAC
- Global Certified
- USB-2C2A, 4-port independent output;  
supports charging of 4 devices at the same time with max.  
total wattage 100W
- PD/QC 3.0 Intelligent Shunt Detection 5V/9V/12V/15V/20V
- 100W USB-C to C charger cable included
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Comply with EISA 2007/DoE, EU ErP, energy efficiency Level VI
- No load power consumption <0.3W
- Suitable for charging laptops, tablets, mobile phones, earphones
- Compact size: 85.5x30x62 mm
- 3 years warranty

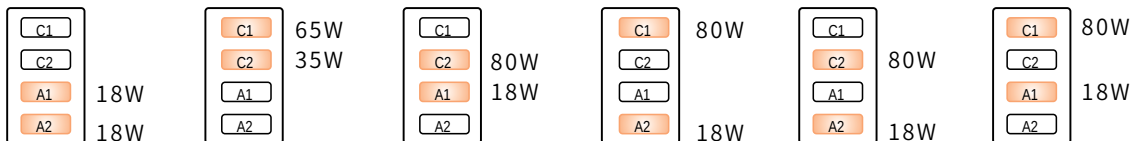


## Recommended Configuration

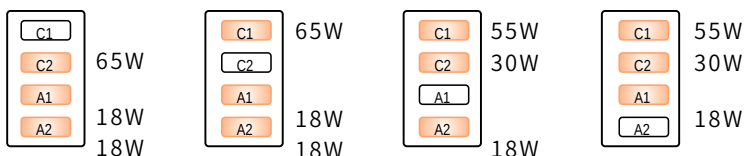
### For 1 Port



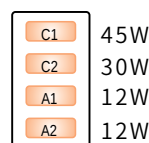
### For 2 Ports



### For 3 Ports



### For 4 Ports



## Interchangeable AC Plug Specifically for NGE 100 Series

|             |                                              |  |  |  |  |  |                          |
|-------------|----------------------------------------------|--|--|--|--|--|--------------------------|
| Model NO.   |                                              |  |  |  |  |  |                          |
| AC plug     | Interchangeable Type<br>EU US UK AU CN KR IN |  |  |  |  |  | Non-Interchangeable Type |
| Certificate | CB PDEKRA ENEC CE UK FC                      |  |  |  |  |  | CB ENEC FC               |

## Application

Earphone  
5VMobile phone  
5V/9VTablet  
9V/15VLaptop  
20V

# OWA Series

60~200W IP67 Moistureproof Industrial Grade Adaptor



OWA-60E/U

OWA-90E/U

OWA-120E/U

OWA-200E/U



|                | E-Type |  |  | U-Type |  |  |
|----------------|--------|--|--|--------|--|--|
| AC Input Plug  |        |  |  |        |  |  |
| DC Output Plug |        |  |  |        |  |  |



Spec

## Features

- IP67 design with internal encapsulated (DC connector not excluded)
- No load power consumption <0.15W
- Energy efficiency Level VI
- -40~+70°C wide operating temperature
- E-Type: Comply with EU ErP; meet CoC Version 5
- U-Type: Comply with EISA 2007/DoE & NRCAN
- Class II power (without earth pin)
- Fanless design, free air convection
- Fully enclosed plastic case
- Suitable for the electronic applications at highly dusty or damp environment
- Protections: Short circuit/Overload/Over voltage/Over temp.
- 5 years warranty

## Models



| Model No.      | OWA-60□      | OWA-90□      | OWA-120□                               | OWA-200□           |
|----------------|--------------|--------------|----------------------------------------|--------------------|
| Vin            | 90~264VAC    | 90~264VAC    | E Type: 180~264VAC ; U Type: 90~264VAC |                    |
| Vout / Iout    | 12V, 0~5A    | 12V, 0~7.5A  | E Type: 12V, 0~9.6A                    | E Type: 12V, 0~15A |
|                | 15V, 0~4A    | 15V, 0~6A    | U Type: 12V, 0~10A                     | U Type: 12V, 0~15A |
|                | 20V, 0~3A    | 20V, 0~4.5A  | 15V, 0~8A                              | 20V, 0~10A         |
|                | 24V, 0~2.5A  | 24V, 0~3.75A | 20V, 0~6A                              | 24V, 0~8.3A        |
|                | 30V, 0~2A    | 30V, 0~3A    | 24V, 0~5A                              | 36V, 0~5.55A       |
|                | 36V, 0~1.67A | 36V, 0~2.5A  | 30V, 0~4A                              | 42V, 0~4.75A       |
|                | 42V, 0~1.5A  | 42V, 0~2.15A | 36V, 0~3.4A                            | 48V, 0~4.17A       |
|                | 48V, 0~1.25A | 48V, 0~1.88A | 42V, 0~2.9A                            | 54V, 0~3.71A       |
|                | 54V, 0~1.12A | 54V, 0~1.67A | 48V, 0~2.5A                            |                    |
|                |              |              | 54V, 0~2.3A                            |                    |
| Dimension (mm) | 130x53x35    | 171x63x37.5  | 191x63x37.5                            | 195x68x39.5        |

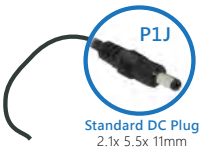
□=E / U    E: European 2P    U: American 2P

## Complete Supplementary Measures - Selection of Changeable DC Plug

- Flexible solution for small quantity
- Easy modification for different size of DC plug

· Off-the-shelf and no MOQ

※ If you can't find the required DC plug in this table, please contact MEAN WELL's sales reps.

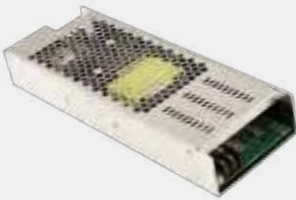
| Adaptor                                                                                                                                                                                                            |   | Changeable DC Plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   | Assembly Illustration (Example)                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|
| <b>Model No.</b><br>NGE12~90<br>GST18~60<br>GSM06~60<br>GEM06~60<br>GE12~40<br>SGAS06~60<br>SGA12~60<br>GS06/15<br>OWA-60U/E<br> | + | <b>Ordering No.</b><br>DC PLUG-P1J-P1I 2.1x 5.5x 9.5mm<br>DC PLUG-P1J-P1M 2.5x 5.5x 11mm<br>DC PLUG-P1J-P1L 2.5x 5.5x 9.5mm<br>DC PLUG-P1J-P3A 0.7x 2.35x 11mm<br>DC PLUG-P1J-P3B 1.7x 4.0x 11mm<br>DC PLUG-P1J-P3C 1.7x 4.75x 11mm<br>DC PLUG-P1J-P4A 3.4x 5.5x 11x 1mm<br>DC PLUG-P1J-P4B 4.4x 6.5x 11x 1.4mm<br>DC PLUG-P1J-P4C 5.1x 7.4x 11x 0.6mm<br>-----<br>DC PLUG-P1J-P1IR 2.1x 5.5x 9.5mm<br>DC PLUG-P1J-P1MR 2.5x 5.5x 11mm<br>DC PLUG-P1J-P1LR 2.5x 5.5x 9.5mm<br>DC PLUG-P1J-P1JR 2.1x 5.5x 11mm<br>-----<br>DC PLUG-P1M-P1MR 2.5x 5.5x 11mm<br>DC PLUG-P1J-R6B KYCON KPPX-3P<br>DC PLUG-P1J-R7B KYCON KPPX-4P<br>DC PLUG-P1J-R1B 5PIN DIN | → |    |
| <b>Model No.</b><br>GST90~120<br>GSM90<br>                                                                                      | + | <b>Ordering No.</b><br>DC PLUG-P1M-P1J 2.1x 5.5x 11mm<br>-----<br>DC PLUG-P1M-P1JR 2.1x 5.5x 11mm<br>-----<br>DC PLUG-P1M-R7B KYCON KPPX-4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | → |  |
| <b>Model No.</b><br>GST120~220<br>GSM120~220<br>OWA-90U~200U<br>                                                                | + | <b>Ordering No.</b><br>DC PLUG-R7BF-P1J 2.1x 5.5x 11mm<br>DC PLUG-R7BF-P1M 2.5x 5.5x 11mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | → |  |

Note : Please refer to MEAN WELL adaptor specifications for DC plug rating and compatibility.



# UMP Series

## 400W Configurable Modular Power



UMP-400  
250x89x37 mm

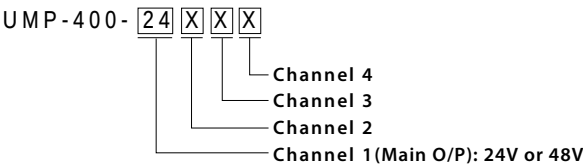


Spec

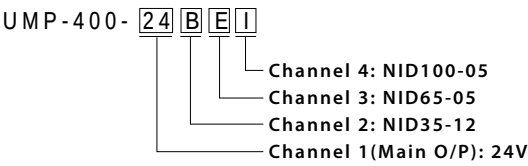
### Features

- Universal AC input/Full range: 90~264VAC
- Ultra Slim 1U profile
- **Fanless design**, 400W free air convection
- **Flexible output channels with maximum 4 outputs**
- Master output channel for 24V/48VDC
- **5V/12V/15V/24V DC-DC modules configurable**
- No minimum load required
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- -30~+70°C wide operating temperature
- LED indicator for power on
- 3 years warranty

### Order Information



#### Example:



| Model No.  | Vout / Iout  | Effi.   |
|------------|--------------|---------|
| UMP-400-24 | 24V, 0~16.7A | 88.5% * |
| UMP-400-48 | 48V, 0~8.3A  | 88.5% * |

\*Cannot be assembled by users, please consult with MEAN WELL or dealer after selection

\*Channel 2, 3, 4 are powered by Channel 1 (Decompressed), NID35/65/100-24 is only suitable for UMP-400-48

\*Only UMP-400-24 can be configured with negative output voltage

| DC-DC Model No. |           | Photo | Vout | Iout |
|-----------------|-----------|-------|------|------|
| A               | NID35-05  |       | 5V   | 3.5A |
| B               | NID35-12  |       | 12V  | 2.9A |
| C               | NID35-15  |       | 15V  | 2.4A |
| D               | NID35-24  |       | 24V  | 1.5A |
| E               | NID65-05  |       | 5V   | 6.5A |
| F               | NID65-12  |       | 12V  | 4.9A |
| G               | NID65-15  |       | 15V  | 4.3A |
| H               | NID65-24  |       | 24V  | 2.7A |
| I               | NID100-05 |       | 5V   | 8A   |
| J               | NID100-12 |       | 12V  | 6A   |
| K               | NID100-15 |       | 15V  | 5.2A |
| L               | NID100-24 |       | 24V  | 3.4A |
| M               | NID35-05  |       | -5V  | 3.5A |
| N               | NID35-12  |       | -12V | 2.9A |
| O               | NID35-15  |       | -15V | 2.4A |
| P               | NID65-05  |       | -5V  | 6.5A |
| Q               | NID65-12  |       | -12V | 4.9A |
| R               | NID65-15  |       | -15V | 4.3A |
| S               | NID100-05 |       | -5V  | 8A   |
| T               | NID100-12 |       | -12V | 6A   |
| U               | NID100-15 |       | -15V | 5.2A |



NMP650  
(650W, 4 SLOTS)  
250x89x41mm



NMP1K2  
(1200W, 6 SLOTS)  
250x127x41mm



NMS-240



NMD-240



Spec



## Features

- Universal AC input/Full range: 90~264VAC
- Medical approval (2\*MOPP)
- Suitable for **BF** application with appropriate system consideration(Touch current < 100μA/264VAC)
- 1U low profile
- **Vout and Iout programmable**
- Built-in parallel function
- Remote ON-OFF/Auxiliary DC output / Over temp. Alarm/DC OK
- Cooling by thermostatically controlled fan with fan alarm function
- Protections: Short circuit/Overload/Over voltage/ Over temperature for All Output Modules
- **5 years warranty**



### NMS-240: 1-SLOT isolated single output (240W max.)

| Item Code | Vout / Iout | Vdc adj. |
|-----------|-------------|----------|
| C         | 5V, 0~36A   | 3~6V     |
| E         | 12V, 0~20A  | 6~15V    |
| H         | 24V, 0~10A  | 15~30V   |
| K         | 48V, 0~5A   | 30~55V   |

### NMD-240: 1-SLOT isolated dual output (240W max.)

| Item Code | Vout / Iout | Vdc adj. |
|-----------|-------------|----------|
| D         | 30V, 0~5A   | 3~30V    |
|           | 30V, 0~5A   | 3~30V    |

### Parallel Connection Accessory

|                                                                      |  |
|----------------------------------------------------------------------|--|
| FAP-009<br>(For NMS-240, 2 units)                                    |  |
| FAP-010<br>(For NMS-240, 3 units)                                    |  |
| NMS-240-P2/P3/P4/P5/P6<br>(to parallel NMS-240 in 2/3/4/5/6 modules) |  |

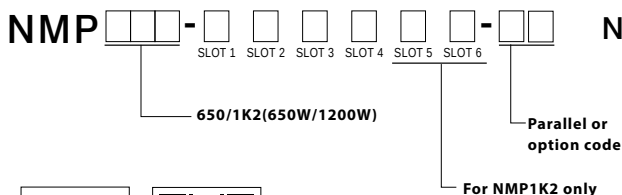
### Series Connection Accessory

|                                          |  |
|------------------------------------------|--|
| FAS-005<br>(For 1-slot modules: NMS-240) |  |
|------------------------------------------|--|

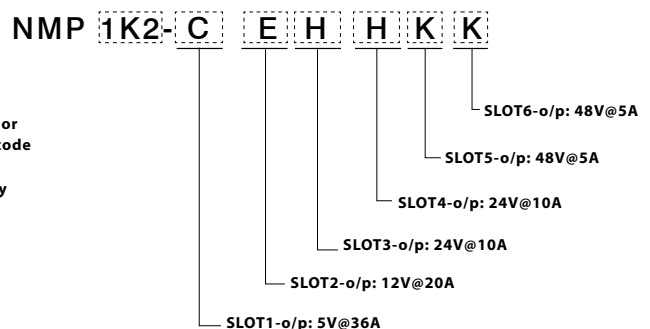
### Blank Plate Accessory

|              |  |
|--------------|--|
| Blank-NMS240 |  |
|--------------|--|

## Output Configuration Guide



### Example:



Introduction Video



Assembly Video

※ The pricing and performance of NMP series are better than MP series, it is highly recommended to use NMP series for new project.

# MP450/650/1K0

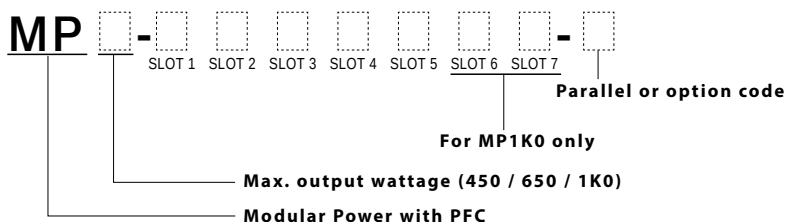
450~1000W Configurable Modular Power



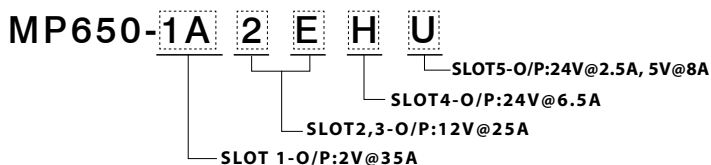
## Features

- Universal AC input/Full range: 85~264VAC
- **Various output configuration is selectable**
- Built-in active PFC compliance to EN61000-3-2
- Built-in constant current limiting circuit for single output modules
- Remote control on each output module
- Remote sense on each single output module (MS-75~360)
- Protections: Short circuit/Overload/Over voltage for all modules
- Parallel function (MS-210/300/360)
- Margining control function (MS-210/360)
- Cooling by built-in DC fan with fan alarm function
- Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

## Output Configuration Guide



### Example:



## UMP vs NMP vs MP Series

| Difference Series | Wattage               | Slots                         | Output Mod                                              | Safety          | Dimenion (LxWxH)                               | Warranty |
|-------------------|-----------------------|-------------------------------|---------------------------------------------------------|-----------------|------------------------------------------------|----------|
| UMP               | 400W                  | 4channels                     | NID-35/65/100                                           | 62368-1         | 250x89x37                                      | 3 years  |
| NMP               | 650W<br>1200W         | 4 slots<br>6 slots            | NMS-240<br>NMD-240                                      | 62368-1+60601-1 | 250x89x41<br>250x127x41                        | 5 years  |
| MP                | 450W<br>600W<br>1000W | 5 slots<br>5 slots<br>7 slots | MS-75<br>MS-150<br>MS-210<br>MS-300<br>MS-360<br>MD-100 | 62368-1         | 254x127x63.5<br>278x127x63.5<br>278x117.8x63.5 | 3 years  |

## ■ MS-75: 1-SLOT single output (75W max.)

| Item Code | Vout / Iout | Peak Iout | Vout adj.  |
|-----------|-------------|-----------|------------|
| L         | 3.3V, 0~15A | 17.3A     | 2.6~4V     |
| M         | 5V, 0~15A   | 17.3A     | 4~6V       |
| N         | 12V, 0~6.3A | 7.3A      | 9~13.2V    |
| O         | 15V, 0~5A   | 5.8A      | 13.2~16.8V |
| P         | 24V, 0~3.2A | 3.7A      | 20~26.4V   |
| Q         | 48V, 0~1.6A | 1.8A      | 40~53V     |

## ■ MS-150: 1-SLOT single output (150W max.)

| Item Code | Vout / Iout | Peak Iout | Vout adj.  |
|-----------|-------------|-----------|------------|
| A         | 2V, 0~25A   | 30A       | 1.6~2.6V   |
| B         | 3.3V, 0~25A | 30A       | 2.6~4V     |
| C         | 5V, 0~25A   | 30A       | 4~6V       |
| D         | 7.5V, 0~18A | 20.7A     | 6~9V       |
| E         | 12V, 0~13A  | 15A       | 9~13.2V    |
| F         | 15V, 0~10A  | 11.5A     | 13.2~16.8V |
| G         | 18V, 0~8.5A | 9.8A      | 16.8~20V   |
| H         | 24V, 0~6.5A | 7.5A      | 20~26.4V   |
| I         | 27V, 0~5.8A | 6.7A      | 25~31V     |
| J         | 33V, 0~4.7A | 5.4A      | 30~40V     |
| K         | 48V, 0~3.2A | 3.68A     | 40~53V     |

## ■ MS-210: 1-SLOT parallelable single output (210W max.)

| Item Code | Vout / Iout  | Peak Iout | Vout adj.  |
|-----------|--------------|-----------|------------|
| 1A        | 2V, 0~35A    | 38.5A     | 1.6~2.6V   |
| 1B        | 3.3V, 0~35A  | 38.5A     | 2.6~4V     |
| 1C        | 5V, 0~35A    | 38.5A     | 4~6V       |
| 1D        | 7.5V, 0~28A  | 32.2A     | 6~9V       |
| 1E        | 12V, 0~17.5A | 20.1A     | 9~13.2V    |
| 1F        | 15V, 0~14A   | 16.1A     | 13.2~16.8V |
| 1G        | 18V, 0~11.6A | 13.4A     | 16.8~20V   |
| 1H        | 24V, 0~8.75A | 10.1A     | 20~26.4V   |
| 1I        | 27V, 0~7.8A  | 9A        | 25~31V     |
| 1J        | 33V, 0~6.4A  | 7.4A      | 30~40V     |
| 1K        | 48V, 0~4.4A  | 5.1A      | 40~53V     |

## ■ MS-300: 2-SLOT parallelable single output (300W max.)

| Item Code | Vout / Iout  | Peak Iout | Vout adj.  |
|-----------|--------------|-----------|------------|
| 2A        | 2V, 0~50A    | 57.5A     | 1.6~2.6V   |
| 2B        | 3.3V, 0~50A  | 57.5A     | 2.6~4V     |
| 2C        | 5V, 0~50A    | 57.5A     | 4~6V       |
| 2D        | 7.5V, 0~40A  | 46A       | 6~9V       |
| 2E        | 12V, 0~25A   | 29A       | 9~13.2V    |
| 2F        | 15V, 0~20A   | 23A       | 13.2~16.8V |
| 2G        | 18V, 0~16.7A | 19.2A     | 16.8~20V   |
| 2H        | 24V, 0~12.5A | 14.4A     | 20~26.4V   |
| 2I        | 27V, 0~11.2A | 12.9A     | 25~31V     |
| 2J        | 33V, 0~9.1A  | 10.5A     | 30~40V     |
| 2K        | 48V, 0~6.3A  | 7.2A      | 40~53V     |

## ■ MS-360: 2-SLOT parallelable single output (360W max.)

| Item Code | Vout / Iout  | Peak Iout | Vout adj.  |
|-----------|--------------|-----------|------------|
| 3A        | 2V, 0~60A    | 69A       | 1.6~2.6V   |
| 3B        | 3.3V, 0~60A  | 69A       | 2.6~4V     |
| 3C        | 5V, 0~60A    | 69A       | 4~6V       |
| 3D        | 7.5V, 0~48A  | 55.2A     | 6~9V       |
| 3E        | 12V, 0~30A   | 34.5A     | 9~13.2V    |
| 3F        | 15V, 0~24A   | 27.6A     | 13.2~16.8V |
| 3G        | 18V, 0~20A   | 23A       | 16.8~20V   |
| 3H        | 24V, 0~15A   | 17.3A     | 20~26.4V   |
| 3I        | 27V, 0~13.4A | 15.5A     | 25~31V     |
| 3J        | 33V, 0~11A   | 12.7A     | 30~40V     |
| 3K        | 48V, 0~7.5A  | 8.7A      | 40~53V     |

## ■ MD-100: 1-SLOT isolated dual output (100W max.)

| Item Code | Vout / Iout | Vout adj.  |
|-----------|-------------|------------|
| R         | 5V, 2~10A   | 4.75~5.5V  |
|           | 5V, 0~8A    | 4.75~5.5V  |
| S         | 5V, 2~10A   | 4.75~5.5V  |
|           | 12V, 0~5.8A | 11.4~13.2V |
| T         | 5V, 2~10A   | 4.75~5.5V  |
|           | 15V, 0~4.7A | 14.2~16.5V |
| U         | 24V, 0.5~3A | 22.8~26.4V |
|           | 5V, 0~10A   | 4.75~5.5V  |
| V         | 24V, 0.6~3A | 22.8~26.4V |
|           | 12V, 0~4.7A | 11.4~13.2V |
| W         | 12V, 1~5A   | 11.4~13.2V |
|           | 12V, 0~5.8A | 11.4~13.2V |
| X         | 15V, 1~4.7A | 14.2~16.5V |
|           | 15V, 0~4.7A | 14.2~16.5V |

★ Peak Iout : 35% duty cycle maximum within every 10 seconds.  
Average output power should not exceed the rated power.

## Parallel Connection Accessory

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| FAP-001<br>(For MS-300, 2 units) |    |
| FAP-002<br>(For MS-300, 3 units) |    |
| FAP-003<br>(For MS-210, 2 units) |    |
| FAP-004<br>(For MS-210, 3 units) |   |
| FAP-005<br>(For MS-210, 4 units) |  |
| FAP-006<br>(For MS-210, 5 units) |  |
| FAP-007<br>(For MS-360, 2 units) |  |
| FAP-008<br>(For MS-360, 3 units) |  |

## Series Connection Accessory

|                                                    |                                                                                       |
|----------------------------------------------------|---------------------------------------------------------------------------------------|
| FAS-001<br>(For 1-slot modules: MS-75/150, MD-100) |  |
| FAS-002<br>(For 2-slot modules: MS-300)            |  |
| FAS-003<br>(For 1-slot modules: MS-210)            |  |
| FAS-004<br>(For 1-slot modules: MS-360)            |  |

► Please use MP450-CNPOQ, MP650-1A2EHU, MP1K0-2C2CEKL-1.....etc. as the order code. For more detail information about technical issues, please refer to the user manual.

► Please refer to the user manual for more detail information about parallel connection and the parallel codes. About series connection, please contact us or your local MEAN WELL distributor for more details.

# 19" Rack Power

RCP: 1000W~2000W Rack Mountable Front End Rectifier  
RHP-1U / RKP-CMU1: 1U Distributed Power System ;  
1U Rack Mountable Control and Monitor Unit



RCP-1000

RCP-1U



RCP-1600



RHP-1U



RCP-2000



RKP-1U



RKP-CMU1



RKP-1U□-CMU1



Spec

## Features

- Universal AC input/Full range: 90~264VAC
- Built-in active PFC function
- Built-in auxiliary power
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Forced air cooling by built-in DC fan
- High power density up to 25W/inch<sup>3</sup>
- 1U low profile (41mm height)
- Output voltage and constant current level programmable
- Active current sharing; max. of 3 racks can be operated in parallel
- Max. parallel power:  
RCP-1000: 8KW, RCP-1600: 24KW,  
RCP-2000: 18KW
- Built-in remote ON/OFF control & remote sense function
- **Support hot swap**
- I<sup>2</sup>C serial data bus selectable; Built-in PMBus serial communication
- AC OK and DC OK signal output
- 5 years warranty

## Order Information

Rectifier:

RCP-1000-

12-C

C : with I2C interface  
—: without I2C interface  
Output voltage(12V/24V/48V)

Rack Shelf:

RCP-1U

I

I : AC inlet(IEC320-C14)  
T : Terminal block

Rectifier:

RCP-1600-

12-C

—: Standard model, PMBus protocol  
C : Optional model, CANBus protocol  
Output voltage(12V/24V/48V)

Rack Shelf:

RHP-1U

I-A

For RCP-1600

I : AC inlet(IEC320-C14)  
T : Terminal block

Rectifier:

RCP-2000-

12

Output voltage(12V/24V/48V)

Rack Shelf:

RKP-1U

I

CMU1

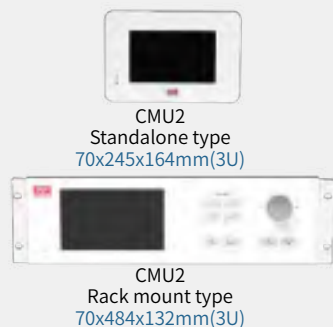
CMU1: with RKP-CMU1  
—: without RKP-CMU1

I : AC inlet(IEC320-C20)  
T : Terminal block

## Models



| Model No.      | RCP-1000                            | RCP-1600                        | RCP-2000                            |
|----------------|-------------------------------------|---------------------------------|-------------------------------------|
| Vout / Iout    | 12V,0~60A                           | 12V,0~125A                      | 12V,0~100A                          |
|                | 24V,0~40A                           | 24V,0~67A                       | 24V,0~80A                           |
|                | 48V,0~21A                           | 48V,0~33.5A                     | 48V,0~42A                           |
| Dimension (mm) | 295x127x41<br>RCP-1U:483.6x350.8x44 | 300x85x 41<br>RHP-1U:440x365x44 | 295x127x41<br>RKP-1U:483.6x350.8x44 |



## CMU2 Features

- 85~264VAC input
- Integration on system power and power management
- 2 models in 3U 19-inch rackmount and standalone configurations
- 7" TFT LCD touch panel and buttons for easy on-site operation
- Ethernet port for on-site or remote monitoring, controlling over the system
- Support PMBus, CANBus & RS-485, RS-232 communication protocols
- Four user programmable relay outputs for conventional remote monitoring or warning
- 5 years warranty

## CMU3 Features NEW

- 10~28VDC input
- Both Rack mount and Desktop options are available
- Panel-less design, Can monitor via mobile APP
- Built-in PMBus, MODBus (RS-485), CANBus and Ethernet communication protocols
- Support multi-Network protocols, including MODBus TCP, WebAPI and Matter
- AWS cloud-native & MQTT ready
- Advanced AI analytics
- Support multi-applications
- 5 years warranty

## Description



CMU2 A -R B C D

Slot1 Slot2 Slot3

Extension cards (Note 1)

C: CANbus  
P: PMBus  
R: RS-232/RS-485/USB  
#: Blank slot

-R: Rackmount type  
Blank: Standalone

Application (Note 2)

A: Burn-in test system (optional)  
B: Horticulture lighting (under development)  
C: Power management  
D: EV Charging (under development)  
E: Other application (to be defined)

Series name  
(Second-generation controller)

CMU3 G -R NEW

-R: Rackmount type  
Blank: Desktop type

G: Global Version  
Blank: China Version

Series name  
(The third-generation controller)

# GC Series

30~326W Portable Green Charger



Spec

## Features

- Built-in active PFC function (Except for GC30)
- Class II power (Without earth pin, GC30 Series)  
Class I power (With earth pin, GC120~330 Series)
- Cooling by free air convection
- 2 pole AC inlet IEC320-C8 (GC30 Series)  
3 pole AC inlet IEC320-C14 (GC120~330 Series)
- No load power consumption<0.5~1W
- Protections: Short circuit/Overload/  
Over voltage/Over temp.
- 2 color LED indicator for charging status
- Fully enclosed plastic case
- 2 years warranty

## Models



| Model No.      | GC30□-P1J      | GC120Axx-○     | GC160Axx-○     | GC220Axx-○     | GC330Axx-C4P |
|----------------|----------------|----------------|----------------|----------------|--------------|
| Vin            | 90~264VAC      | 85~264VAC      | 85~264VAC      | 90~264VAC      | 90~264VAC    |
| Vout / Iout    | 4.2V, 0~4A     | 13.6V, 0~7.5A  | 13.6V, 0~10A   | 13.6V, 0~13.5A | 40.8V, 0~8A  |
|                | 5.6V, 0~3.99A  | 27.2V, 0~4.42A | 27.2V, 0~5.89A | 27.2V, 0~8A    | 54.4V, 0~6A  |
|                | 7.2V, 0~3A     | 54.4V, 0~2.21A | 54.4V, 0~2.95A | 54.4V, 0~4A    |              |
|                | 8.4V, 0~3A     |                |                |                |              |
|                | 14.3V, 0~2.09A |                |                |                |              |
|                | 16.8V, 0~1.6A  |                |                |                |              |
|                | 28.6V, 0~1.04A |                |                |                |              |
| Dimension (mm) | 108x67x36      | 167x67x35      | 175x72x35      | 210x85x46      | 220x95x46    |

□=B / U / E

○=R7B /AD1/C4P

B: IEC320-C8, U: American 2P E: European 2P

R7B: 4 pin power din AD1: Anderson connector C4P: 4 pin Extension cord

# 120~360W Portable & Programmable Fanless Charger ENP/ENC Series



ENP-120/180/240/360  
(Power)



ENC-120/180/240/360  
(Charger)



## ■ ENP Features

- Universal AC input/Full range: 90~264VAC
- **Energy efficiency Level VI**
- No load power consumption<0.15~0.5W
- Comply with EISA 2007/DoE, NRCan, EU ErP
- 125% peak load capability
- **Fanless design**, free air convection
- Protections: Short circuit/Overload/Over voltage/Over temp.
- 3 years warranty

## ■ ENC Features

- Universal AC input/Full range: 90~264VAC
- Can charge lead-acid batteries and lithium batteries
- Built-in 3 stage default charging curve, **programmable** by SBP-001 (Refer to P.62)
- **Fanless design**, free air convection
- Built-in temperature compensation function
- Protections: Short circuit/Over voltage/Over temp./Battery under voltage/Battery overvoltage/Battery reverse Polarity Protection
- 3 years warranty

## ■ Models



| Model No.      | ENP-120       | ENP-180       | ENP-240        | ENP-360       |
|----------------|---------------|---------------|----------------|---------------|
| Vout / Iout    | 13.8V, 0~8.7A | 13.8V, 0~13A  | 13.8V, 0~17.4A | 13.8V, 0~26A  |
|                | 27.6V, 0~4.3A | 27.6V, 0~6.5A | 27.6V, 0~8.7A  | 27.6V, 0~13A  |
|                | 55.2V, 0~2.2A | 55.2V, 0~3.3A | 55.2V, 0~4.4A  | 55.2V, 0~6.5A |
| Dimension (mm) | 192x178x45.5  |               |                |               |



| Model No.      | ENC-120      | ENC-180      | ENC-240      | ENC-360      |
|----------------|--------------|--------------|--------------|--------------|
| Vout / Iout    | 14.4V, 0~8A  | 14.4V, 0~12A | 14.4V, 0~16A | 14.4V, 0~24A |
|                | 28.8V, 0~4A  | 28.8V, 0~6A  | 28.8V, 0~8A  | 28.8V, 0~12A |
|                | 57.6V, 0~2A  | 57.6V, 0~3A  | 57.6V, 0~4A  | 57.6V, 0~6A  |
| Dimension (mm) | 192x178x45.5 |              |              |              |



# NPB Series

## 120~1700W Ultra Wide Voltage Smart Charger

| O/P Connector Type |  |
|--------------------|--|
| XLR                |  |
| AD1                |  |
| TB                 |  |



Spec



NPB-120  
NPB-240  
NPB-360



NPB-450  
NPB-450-xxNFC



NPB-750



NPB-1200



NPB-1700

### NPB-120~360 Features

- Universal AC input/Full range: 90~264VAC
- Compact size, **wide output voltage range for charging**
- Fanless design (NPB-120/240)
- Fan ON/OFF control  
(Depends on internal temperature, NPB-360)
- **Charging voltage/current adjustable by VR**
- **2 or 3 stage selectable by DIP S.W**
- No load power consumption<0.5W (AC S.W off)
- **-30~+70°C wide operating temperature**
- Protections: Short circuit/Over voltage/Over temp./  
Battery reverse Polarity
- **UL/EN62368-1 & EN60335-1/2-29 dual certification approved**
- Suitable for charging lead-acid batteries and lithium batteries
- Fixing accessories can be purchased separately (order NO.MHS012D)
- 3 years warranty

### NPB-450~1700 Features

- Universal AC input/Full range :90~264VAC
- **2 times wide charging voltage range, can be used for multiple battery voltages**
- **Setting parameter of charger easily via NFC interface(NPB-450-xxNFC)**
- **Intelligent detection of charging voltage**
- Programmable charging curve via SBP-001(Refer to P.62)
- Manual setting for 2/3 stage and 4 built-in charging curves via DIP S.W
- **Built-in CANbus interface for control, setting, and monitor**
- Charging current adjustable **50~100%** by VR
- **-30~+70°C wide operating temperature**
- Protections: Short circuit/Over voltage/Over temp./  
Battery undervoltage/Battery reverse Polarity (**No damage**)
- Detect charger OK and battery full signal through TTL
- Remote S.W / thermal control DC fan
- Temperature compensation function to prolong battery life (Lead-acid only)
- **UL/EN62368-1 & EN60335-1/2-29 dual certification approved**
- Suitable for charging lead-acid batteries and lithium batteries
- Carry handle accessory available(Order No.: PN-Carry handle)
- 3 years warranty

### Models



(NPB-120~360) (NPB-360) (NPB-120/360 AD1)

| Model No.      | NPB-120-□               | NPB-240-□                | NPB-360-□              |
|----------------|-------------------------|--------------------------|------------------------|
| Vout / Iout    | 14.4V(10.5~15.2V), 6.8A | 14.4V(10.5~15.2V), 13.5A | 14.4V(10.5~15.2V), 20A |
|                | 28.8V(21~30.4V), 4A     | 28.8V(21~30.4V), 8A      | 28.8V(21~30.4V), 12A   |
|                | 57.6V(42~60.8V), 2A     | 57.6V(42~60.8V), 4A      | 57.6V(42~60.8V), 6A    |
| Dimension (mm) | 180x96x49               |                          |                        |

□ = XLR ; AD1 ; TB

| Model No.      | NPB-450-□              | NPB-750                | NPB-1200               | NPB-1700               |
|----------------|------------------------|------------------------|------------------------|------------------------|
| Vout / Iout    | 14.4V(10.5~21V), 0~25A | 14.4V(10.5~21V), 0~43A | 14.4V(10.5~21V), 0~70A | 14.4V(10.5~21V), 0~85A |
|                | 28.8V(21~42V), 0~13.5A | 28.8V(21~42V), 0~22.5A | 28.8V(21~42V), 0~36A   | 28.8V(21~42V), 0~50A   |
|                | 57.6V(42~80V), 0~6.8A  | 57.6V(42~80V), 0~11.3A | 57.6V(42~80V), 0~18A   | 57.6V(42~80V), 0~25A   |
|                | 72V(54~100V), 0~5.5A   |                        |                        |                        |
| Dimension (mm) | 205x130x55             | 230x158x67             | 250x158x67             | 300x184x70             |

□ = Blank, NFC

# 450~1700W 2 in 1 Ultra Wide Voltage Charger & Constant Voltage Power Supply

## NPP Series



NPP-450



NPP-750



NPP-1200



NPP-1700



## Features

- Universal AC input/Full range: 90~264VAC
- **Charger or power supply constant voltage switchable (plug pin on the panel)**
- **2 times wide voltage output**
- Vout and Iout adjustable by **50~100% VR**
- 3 stage charging curve (Charging Mode)
- **-30~+70°C** wide operating temperature
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Remote S.W /thermal control DC fan
- Suitable for charging lead-acid batteries and lithium batteries
- **Comply with UL/EN62368-1 & EN60335-1/2-29 dual certification**
- Carry handle accessory available (Order No.: PN-Carry handle)
- 3 years warranty

## Models



| Model No.      | NPP-450                     | NPP-750                      | NPP-1200                  | NPP-1700                    |
|----------------|-----------------------------|------------------------------|---------------------------|-----------------------------|
| Vout / Iout    | 14.4V(10.5~21V)<br>12.5~25A | 14.4V(10.5~21V)<br>21.5~43A  | 14.4V(10.5~21V)<br>35~70A | 14.4V(10.5~21V)<br>42.5~85A |
|                | 28.8V(21~42V)<br>6.75~13.5A | 28.8V(21~42V)<br>11.25~22.5A | 28.8V(21~42V)<br>18~36A   | 28.8V(21~42V)<br>25~50A     |
|                | 57.6V(42~80V)<br>3.4~6.8A   | 57.6V(42~80V)<br>5.65~11.3A  | 57.6V(42~80V)<br>9~18A    | 57.6V(42~80V)<br>12.5~25A   |
| Dimension (mm) | 205x130x55                  | 230x158x67                   | 250x158x67                | 300x184x70                  |

## NPB VS. NPP Selection Guide

| Functions Series                           | Mounting style | Product level | 2 or 3 stage                          | Vo Adj.                                                                                              | Io Adj.              | Built-in CANBus | O/P connector          | Built-in Fan | Dimension (LxWxH,mm)                                 |
|--------------------------------------------|----------------|---------------|---------------------------------------|------------------------------------------------------------------------------------------------------|----------------------|-----------------|------------------------|--------------|------------------------------------------------------|
| NPB-120<br>NPB-240<br>NPB-360              | Portable       | Basic         | Adj.by DIP S.W                        | Adj.by VR<br>14.4V:10.5~15.2V<br>28.8V:21~30.4V<br>57.6V:42~60.8V                                    | Adj.by VR<br>50~100% | ×               | T.B<br>Anderson<br>XLR | ×            | 180x96x49                                            |
| NPB-450<br>NPB-750<br>NPB-1200<br>NPB-1700 | Screw Mounted  | Intelligent   | Adj.by DIP S.W or SBP-001 with laptop | Auto ranging or SBP-001<br>14.4V:10.5~21V<br>28.8V:21~42V<br>57.6V:42~80V<br>72V:54~100V (450W only) |                      | ✓               | T.B                    | ✓            | 205x130x55<br>230x158x67<br>250x158x67<br>300x184x70 |
| NPP-450<br>NPP-750<br>NPP-1200<br>NPP-1700 |                | Advanced      | 3-stage only                          | Adj.by VR<br>14.4V:10.5~21V<br>28.8V:21~42V<br>57.6V:42~80V<br>72V:54~100V (450W only)               |                      | ×               |                        |              | 205x130x55<br>230x158x67<br>250x158x67<br>300x184x70 |

# RPB/RCB/DBU/NCP 1600/3200W High Power Programmable Charger



RPB-1600

RCB-1600

DBU-3200

NCP-3200

DHP-1UT-B(HV)



Spec

## RPB/RCB-1600 Features

- Universal AC input/Full range: 90~264VAC
- 3 stage charging curves
- Withstand 300VAC surge input for 5 secs.
- Built-in **I<sup>2</sup>C interface**, **PMBus** protocol (CANBus protocol selectable)
- 1U low profile with( 41 mm height)
- Rack mountable, sharing up to 8000W (RCB-1600)
- Active current sharing up to 4800W (RPB-1600)
- Vout and Iout programmable
- Forced air cooling by built-in DC fan
- Built-in **OR-ing FET**, support **hot swap**
- Protections: Short circuit/Over voltage/Over temp./ Battery undervoltage/Battery disconnected
- 3 color LED loading indicator
- Optional conformal coating
- Suitable for charging lead-acid batteries and lithium batteries
- **5 years warranty**

## DBU/NCP-3200 Features

- Universal AC input/Full range: 90~264VAC
- Built-in default 3 stage charging curves and programmable curve, can be set via SBP-001(**Detail refer to P.62**)
- High efficiency up to 94.5%
- High power density **37W/in<sup>3</sup>**
- Forced air cooling by built-in DC fan
- **Vout and Iout programmable**
- Built-in **OR-ing MOSFET**, support **hot swap**
- Active current sharing up to 6400W (DBU-3200)/ 12800W (NCP-3200)
- Built-in **I<sup>2</sup>C interface**, **PMBus** protocol (Optional CANBus)
- Protections: Short circuit/Over voltage/Over temp./ Battery undervoltage/Battery disconnected
- Optional conformal coating
- Suitable for charging lead-acid batteries and lithium batteries
- **5 years warranty**

## Order Information

DBU-3200-24

- Communication protocol option  
 { Blank: Standard model, PMBus protocol  
 CAN: Optional model, CANBus protocol
- Nominal voltage (24V/48V)
- Output wattage
- Series name  
 (DBU: Charger; DBR: Rack charger)

DHP-1U T - A

- Rack shelf for 3200W unit
- T: Terminal block
- Profile of the system
- Series name  
 (DHB: Rack shelf)

## Models



| Model No.      | RPB-1600       | RCB-1600       | DBU-3200      | NCP-3200                                    |
|----------------|----------------|----------------|---------------|---------------------------------------------|
| Vout / Iout    | 14.4V, 0~100A  | 14.4V, 0~100A  | 28.8V, 0~110A | 24V, 0~133A                                 |
|                | 28.8V, 0~55A   | 28.8V, 0~55A   | 57.6V, 0~55A  | 48V, 0~67A                                  |
|                | 57.6V, 0~27.5A | 57.6V, 0~27.5A |               | 380V, 0~9.6A                                |
| Dimension (mm) | 300x85x41      |                | 325x107x41    | NCP-3200:325x107x41<br>DHP-1UT:400x482.6x44 |



SBP-001  
165x46x23 mm



Spec

## Features

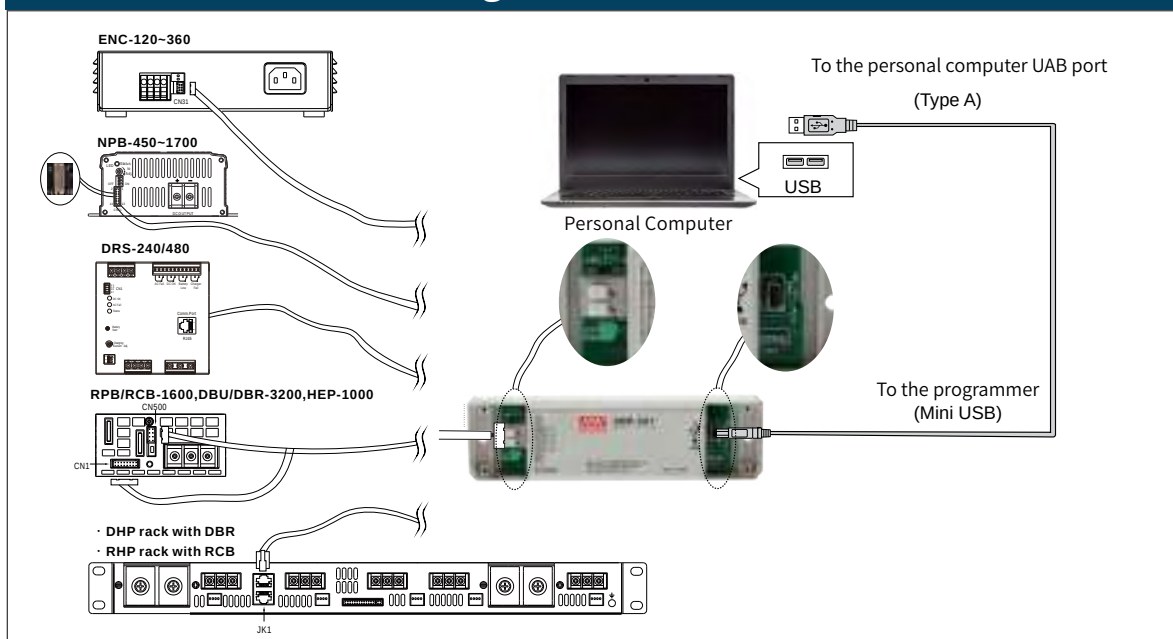
- Charging curve can be programmable when matching with MEAN WELL's Intelligent Battery Chargers
- Suitable for models:  
ENC-120/240/360, NPB-450/750/1200/1700,  
DRS-240/480, HEP-1000, HEP-2300-55,  
RPB/RCB-1600, DBU/NCP-3200
- Simple connection and configuration
- No need of battery or AC power
- LED status indicator

## Description

SBP-001, a smart programmer specially designed for MEAN WELL's various programmable chargers; with adjustable settings such as Constant Current (CC), Constant Voltage (CV), Float Voltage (FV) and Tap Current (TC) etc.

To adapt the variety of batteries, users can easily adjust MEAN WELL's programmable chargers by SBP-001 smart programmer and personal computer, while complete the various charging settings via the dedicated software.

## Smart Programmer Connection



HEP-600C

600W Battery Charger for Harsh Environment



HEP-600C



Spec

Features

- Can charge lead-acid and lithium batteries in harsh environments
  - Universal AC input/Full range: 85~264VAC
  - 3 stage charging
  - Built-in active PFC function
  - No load power consumption<0.5W at remote OFF
  - High efficiency up to 96%
  - Fanless design, cooling by free air convection
- Aluminum case and filling with heat-conducted glue
  - Withstand 10G vibration test
  - -40 ~ +70°C wide operating range
  - Operating altitude up to 5000 meters
  - Output voltage and output current can be adjusted through internal potentiometer
  - Protections: Short circuit/Over voltage/Over temp.
  - 6 years warranty

Models



| Model No.      | HEP-600C       |
|----------------|----------------|
| Vout / Iout    | 14.4V, 0~35A   |
|                | 28.8V, 0~21A   |
|                | 57.6V, 0~10.5A |
| Dimension (mm) | 280x144x48.5   |



User Manual



Spec



Landing page



NTS-250P

NTS-400P

186x100.5x32 mm

NTS-300

NTS-450

210x130x55 mm

NTS-750

270x158x67 mm

NTS-1200

333x184x70 mm

NTS-1700

400x184x70 mm

NTS-2200

NTS-3200

420x270x98 mm

## Features

- High frequency design, compact size and light weighted
- Built-in type (NTS-250P/400P)
- True sine wave output (THD<3%)
- High surge power up to **200%**
- **Fanless** design, free air convection (NTS-250P/400P/300)
- **AC output voltage and frequency selectable by DIP S.W**
- No load power consumption **<1.2~1.7W at standby saving mode** (According to models)
- **-25~+70°C** wide operating temperature
- Protections:
  - DC Input: Reverse polarity/DC undervoltage alarm/
  - DC low voltage shutdown/Over voltage
  - AC Output: Short circuit/Overload/Over temp.
- Power ON-OFF remote control
- Remote controller (IRC1, IRC2, IRC3 accessory sold separately, suitable for 750W~3200W)
- Support RS-232 communication (750W~3200W, Cable PFF1 RJ11-RS232 sold separately)
- Built-in Tx/Rx for monitoring power inverter status (Only NTS-250P/400P)
- Carry handle accessory (Order No. PN-Carry handle, sold separately)
- Suitable for lead-acid or li-ion batteries
- **Internal PCB board with coating protection**
- 3 years warranty

## Models



| Installation        | Model No.      | Continue power | Input(Vdc)                         | Output(Vac/Hz)                                                                                                                                                         | Built-in Fan | AC Bypass Function |
|---------------------|----------------|----------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
| Built-in (PCB Type) | NTS-250P-xxx   | 250W           | 10~16.5Vdc<br>20~33Vdc<br>40~66Vdc | 112, 124, 148 : 110Vac/60HZ<br>212, 224, 248 : 230Vac/50HZ<br><br>100/110/115/120Vac<br>200/220/230/240Vac<br>(4-stage output voltage can be adjusted through DIP S.W) | ✕            | ✕                  |
|                     | NTS-400P-xxx   | 450W           |                                    |                                                                                                                                                                        |              |                    |
| External (Portable) | NTS-300-xxxxy  | 300W           |                                    |                                                                                                                                                                        | ✓            |                    |
|                     | NTS-450-xxxxy  | 450W           |                                    |                                                                                                                                                                        |              |                    |
|                     | NTS-750-xxxxy  | 750W           |                                    |                                                                                                                                                                        |              |                    |
|                     | NTS-1200-xxxxy | 1200W          |                                    |                                                                                                                                                                        |              |                    |
|                     | NTS-1700-xxxxy | 1700W          |                                    |                                                                                                                                                                        |              |                    |
|                     | NTS-2200-xxxxy | 2200W          |                                    |                                                                                                                                                                        |              |                    |
|                     | NTS-3200-xxxxy | 3200W          |                                    |                                                                                                                                                                        |              |                    |

## Model Encoding

NTS - 300 - 1 12 US

AC output socket (Type US, EU, CN, AU, UK, UN, TB, GFCI outlet)

DC input voltage (12:12Vdc, 24:24Vdc, 48:48Vdc)

AC output voltage (1: 100/110/115/120 Vac, 2: 200/220/230/240Vac)

Rated wattage (250W~3200W)

Series name

Model xxx = 112, 124, 148, 212, 224, 248

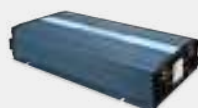
AC output socket yy = US, UN, GFCI, TB (for 110 Vac models)

= EU, UN, CN, AU, UK, TB (for 230 Vac models)

See P.67 for socket table

# NTU Series

## 1200~3200W True Sine Wave DC-AC inverter (Built-in AC Bypass)



NTU-1200  
333x184x70 mm



NTU-1700  
400x184x70 mm



NTU-2200  
420x270x98 mm



NTU-3200  
420x270x98 mm



Spec



Landing page

## Features

- Built-in UPS function (AC Bypass)
- True sine wave output (THD<3%)
- High surge power up to 200%
- AC outout Voltage and frequency selectable by DIP S.W
- -25~+70°C wide operating temperature
- Power ON-OFF remote control
- Remote controller (IRC1,IRC2,IRC3 accessory sold separately, suitable for 1200W~3200W)
- Protections:
  - DC Input: Reverse polarity/DC undervoltage alarm/ DC low voltage shutdown/Over voltage
  - AC Output: Short circuit/Overload/Over temp.
- Support RS-232 communication (750W~3200W, cable DS-RJ11-RS232 sold separately)
- Carry handle accessory (Order No. PN-Carry handle, sold separately)
- Suitable for lead-acid or li-ion batteries
- Internal PCB board with coating protection
- 3 years warranty

## Models



| Installation        | Model No.       | Continue power | Input(Vdc)                         | Output(Vac/Hz)                                                                                                                                                     | Built-in Fan | AC Bypass Function |
|---------------------|-----------------|----------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
| External (Portable) | NTU-1200-xxxxxy | 1200W          | 10~16.5Vdc<br>20~33Vdc<br>40~66Vdc | 112, 124, 148 : 110Vac/60HZ<br>212, 224, 248 : 230Vac/50HZ<br>100/110/115/120Vac<br>200/220/230/240Vac<br>(4-stage output voltage can be adjusted through DIP S.W) | ✓            | ✓                  |
|                     | NTU-1700-xxxxxy | 1700W          |                                    |                                                                                                                                                                    |              |                    |
|                     | NTU-2200-xxxxxy | 2200W          |                                    |                                                                                                                                                                    |              |                    |
|                     | NTU-3200-xxxxxy | 3200W          |                                    |                                                                                                                                                                    |              |                    |

## Model Encoding

NTU - 1200 - 1 12 US

AC output socket (Type US, EU, CN, AU, UK, UN, TB, GFCI outlet)

DC input voltage (12:12Vdc, 24:24Vdc, 48:48Vdc)

AC output voltage (1: 100/110/115/120 Vac, 2: 200/220/230/240Vac)

Rated wattage(1200W~3200W)

Series name

Model xxx = 112, 124, 148, 212, 224, 248  
AC output socke yy = US, UN, GFCI, TB (for 110 Vac models)  
= EU, UN, CN, AU, UK, TB (for 230 Vac models)

| MODEL       | 100~120Vac model |           |           |           | 200~240Vac model |          |           |          |           |           |
|-------------|------------------|-----------|-----------|-----------|------------------|----------|-----------|----------|-----------|-----------|
| Socket type |                  |           |           |           |                  |          |           |          |           |           |
|             | TYPE-US          | TYPE-UN   | TYPE-GFCI | TYPE-TB   | TYPE-EU          | TYPE-CN  | TYPE-UN   | TYPE-UK  | TYPE-AU   | TYPE-TB   |
|             | Standard         | Standard  | Optional  | Standard  | Standard         | Standard | Standard  | Optional | Optional  | Standard  |
| Country     | USA              | UNIVERSAL | USA       | UNIVERSAL | EUROPE           | CHINA    | UNIVERSAL | U.K      | AUSTRALIA | UNIVERSAL |

※ TYPE-TB is only applicable to NTS/NTU-2200/3200 series

## 1500/3000W True Sine Wave DC-AC Inverter (With Solar Charger)

## TN Series



TN-1500  
420x 220x 88 mm



TN-3000  
466.8x 283x 100 mm



Spec

## Features

- Built-in AC grid and solar dual-source charging function
- True sine wave output (THD<3%)
- High surge power up to **200%**
- Advanced digital control by microprocessor
- Output voltage/frequency selectable
- High efficiency up to 91%
- Front panel indicator for loading/battery/operation status
- High frequency design
- Protections:
  - DC Input: Reverse polarity/DC undervoltage alarm/DC low voltage shutdown
  - AC Output: Short circuit/Overload/Over temp./AC circuit breaker
- 3 years warranty

## Models

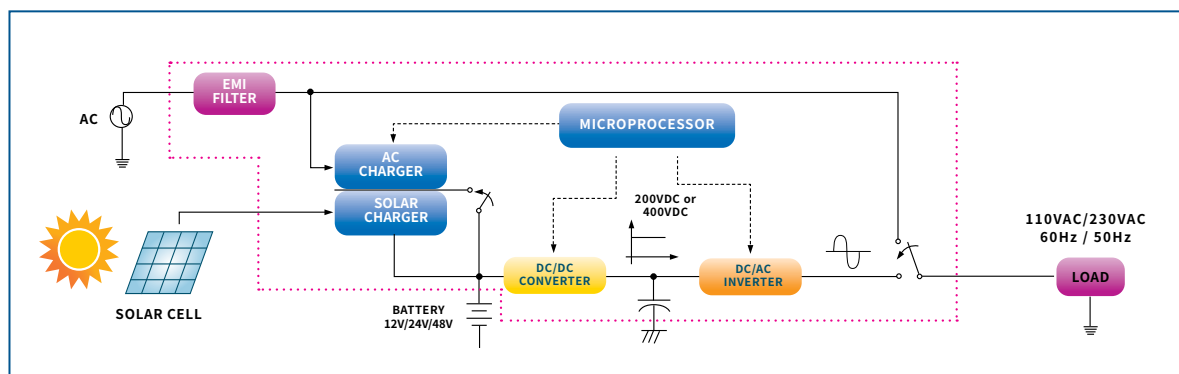
CB cULus E13 EAC CE UKCA FC

| Installation           | Model No.      | Continue power | Input(Vdc)                         | Output(Vac/Hz)                                                                                                                                                            | Built-in Fan | AC Bypass Function |
|------------------------|----------------|----------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
| External<br>(Portable) | TN-1500-xxxxxy | 1500W          | 10.5~15Vdc<br>21~30Vdc<br>42~60Vdc | 112, 124, 148 : 110Vac/60HZ<br>212, 224, 248 : 230Vac/50HZ<br>100/110/115/120Vac<br>200/220/230/240Vac<br><b>(4-stage output voltage can be adjusted through DIP S.W)</b> | ✓            | ✓                  |
|                        | TN-3000-xxxxxy | 3000W          |                                    |                                                                                                                                                                           |              |                    |

Mode xxx = 112, 124, 148, 212, 224, 248

AC output socket: y= A (US), B (EU), C (AU), D (UK), F (GFCI)

## Solar Inverter Block Diagram (Inverter with AC & Solar Charger)





# NTN Series

5KW Off-Grid True Sine Wave DC-AC Inverter  
(Built-in AC charger +AC Bypass & External MPPT Solar Charger)



NTN-5K  
460x211x83.5 mm



AC Output Side



DC Input Side



Spec



EDM

## Features

- Multi-functional all-in-one device (AC-DC charger + DC-AC inverter + AC\_bypass)
- True Sine wave output (THD < 3%)
- AC utility charger up to 135A / 4KW max.
- Can support external MPPT solar charger
- AC by-pass without interruption, transfer time < 10ms
- High surge power up to 10KW
- Parallel synchroized operation up to 30KW (5+1 unit)
- -30°C ~ +70°C wide operating temperature
- Protections :  
DC Input: Reverse polarity / DC low alarm /  
DC low shutdown / Over voltage  
AC Output: Short circuit / Overload / Over temp./ AC circuit breaker
- Support MODBus-RTU (RS-485) communication
- PCB board with coating protection
- CMU2E/CMU2-R Optional intelligent controller available
- 5 years warranty

## Models



| Installation | Model No.  | Continue power | Input (Vdc)                        | Output (Vac/Hz)                                                                                                                                                | Charger |          | AC Bypass Function | AC Output Parallel |
|--------------|------------|----------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|--------------------|--------------------|
|              |            |                |                                    |                                                                                                                                                                | AC      | MPPT     |                    |                    |
| Built-in     | NTN-5K-xyy | 5000W          | 20~33Vdc<br>40~66Vdc<br>280~430Vdc | 124, 148 : 110Vac/60HZ<br>224, 248, 2380 : 230Vac/50HZ<br>100/110/115/120Vac<br>200/220/230/240Vac<br>(4-stage output voltage can be adjusted through DIP S.W) | ✓       | External | ✓<br>(<10ms)       | ✓<br>(5+1 unit)    |

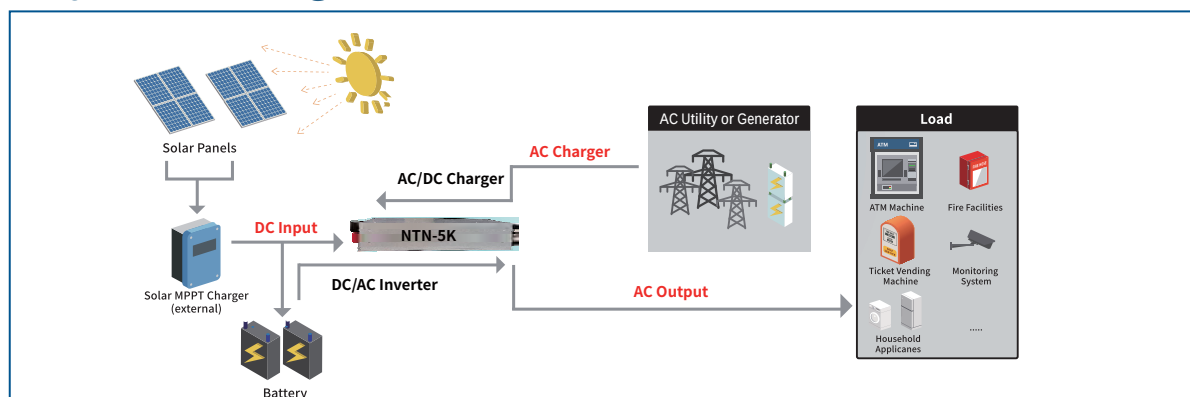
## Model Encoding

Model x= 1, 2 ; yy= 24, 48, 380

NTN - 5K - 2 24

- DC input voltage (24:24Vdc, 48:48Vdc, 380:380Vdc)
- AC output voltage (1: 100/110/115/120 Vac, 2: 200/220/230/240Vac)
- Rated wattage (5000W)
- Series name

## System Configuration



**BIC : AC↔DC Bidirectional Power Supply**  
**NTG: AC↔DC On-Grid/Off-Grid All-in-one Hybrid Inverter**

# BIC/NTG Series



BIC-2200



BIC-5K



NTG-7K5



NTG-20K



Spec

## BIC Features

- AC↔DC Bidirectional Power Supply
- Ultrafast switching time <1ms (AC↔DC)
- <3% Low THDi in both conversion mode
- Support CANBus (BIC-2200/5K) or MODBus (BIC-5K)
- Built-in parallel operation
- -30~+70°C wide operating temperature
- Fan noise <43~54dB (BIC-5K)
- PCB board with coating protection(BIC-5K)
- EN50549-1 approved (BIC-5K)
- 5 years warranty

## NTG Features

COMING SOON

- Ultra-fast bidirectional time of 5ms (AD ⇌ DC)
- All-in-one hybrid inverter with compact size
- Combining AC/DC Charger, DC/AC Inverter, AC-UPS, Generator port available & support external MPPT Solar Charger
- 3Ø 3-wire or 3Ø 4-wire 340~530Vac
- High efficiency up to 94.5%
- On-Grid ⇌ Off-Grid ultra-fast transfer time <20ms
- THD <5% Off-Grid Pure sine wave
- AC output parallel operation up to 45kW (NTG-7K5) and 120kW (NTG-20K)
- Support CANBus or MODBus-RTU(RS-485) protocol communication
- Complete protections: Anti-islanding protection, AC fail, OVP, OLP, OCP, OTP
- -30°C~+70°C wide operating temperature
- Fan noise <50dB
- Support Wi-Fi easy monitoring by APP by optional(with external dongle)
- Conformal coating
- 5 years warranty

## Models

Parallel FC CB

| Model No.      | BIC-2200-xx□ | BIC-5K-xx○ <b>NEW</b> |
|----------------|--------------|-----------------------|
| Vout / Iout    | 12V, 0~180A  | 24V, 0~208A           |
|                | 24V, 0~90A   | 48V, 0~104A           |
|                | 48V, 0~45A   | 96V, 0~52A            |
|                | 96V, 0~22.5A | 380V, 0~15A           |
| Dimension (mm) | 330x140x41   | 460x211x83.5          |

BIC-2200 : □=Blank, CAN  
 BIC-5K : ○=Blank, MOD

Blank: None protocol  
 Blank: CANBus protocol

CAN: CANBus protocol  
 MOD: MODBus protocol

CB

| Model No.      | NTG-7K5-xx□ <b>COMING SOON</b> | NTG-20K-xx□ <b>COMING SOON</b> |
|----------------|--------------------------------|--------------------------------|
| Vout / Iout    | 15V, 0~334A                    | 48V, 0~450A                    |
|                | 24V, 0~312A                    | 96V, 0~225A                    |
|                | 48V, 0~156A                    | 380V, 0~57A                    |
|                | 96V, 0~78A                     |                                |
|                | 380V, 0~19.8A                  |                                |
| Dimension (mm) | 514x211x83.5                   | 570x424x83.5                   |

□=CAN, MOD CAN: CANBus protocol MOD: MODBus protocol

# A301/A302

## 100~2500W Modified Sine Wave DC-AC Inverter



## Features

- High frequency & portable design
- With power ON/OFF switch and LED indicator
- Remote ON/OFF controller sold separately(1000~2500W)
- Built-in USB 5VDC/0.5A, fanless (100W)
- Input and output are fully isolated
- Protections:  
DC Input: Reverse polarity/Over voltage/  
Low voltage shutdown  
AC Output: Short circuit/Overload/Over temp.
- Low cost
- 1 year warranty

## Models



| Installation        | Model No.                                                | Continue power | Input(Vdc)                     | Output(Vac/Hz)                   | Built-in Fan |
|---------------------|----------------------------------------------------------|----------------|--------------------------------|----------------------------------|--------------|
| External (Portable) | A301-100F3<br>A302-100F3                                 | 100W           | A301:10~15Vdc<br>A302:21~30Vdc | B2:110Vac/60Hz<br>F3:230Vac/50Hz | X            |
|                     | A301-150-B2<br>A301-150-F3<br>A302-150-B2<br>A302-150-F3 | 150W           |                                |                                  |              |
|                     | A301-300-B2<br>A301-300-F3<br>A302-300-B2<br>A302-300-F3 | 300W           |                                |                                  | ✓            |
|                     | A301-600-B2<br>A301-600-F3<br>A302-600-B2<br>A302-600-F3 | 600W           |                                |                                  |              |
|                     | A301-1K0-B2<br>A301-1K0-F3<br>A302-1K0-B2<br>A302-1K0-F3 | 1000W          |                                |                                  |              |
|                     | A301-1K7-B2<br>A301-1K7-F3<br>A302-1K7-B2<br>A302-1K7-F3 | 1700W          |                                |                                  |              |
|                     | A301-2K5-B4<br>A301-2K5-F3<br>A302-2K5-B4<br>A302-2K5-F3 | 2500W          |                                |                                  |              |

## Model Encoding

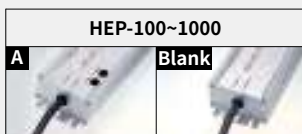
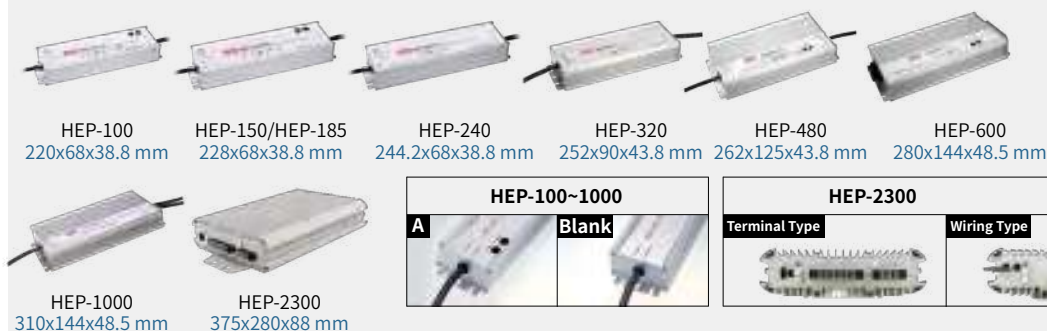
### A301- 100 F3

- AC Output Socket  
(Refer to the table on the right)
- AC Input Voltage (B:110Vac, F:230Vac)
- Output Wattage  
(100:100W, 150:150W, 300:300W,  
1K0:1000W, 1K7:1700W, 2K5:2500W)
- DC Input Voltage (1:12Vdc, 2:24Vdc)
- Series

|                                                                                                                           |        |        |           |           |        |
|---------------------------------------------------------------------------------------------------------------------------|--------|--------|-----------|-----------|--------|
|                                                                                                                           |        |        |           |           |        |
| TYPE-1                                                                                                                    | TYPE-2 | TYPE-3 | TYPE-4    | TYPE-5    | TYPE-6 |
| JAPAN                                                                                                                     | USA    | EUROPE | UNIVERSAL | AUSTRALIA | U.K.   |
| ▶ Please consult MEAN WELL for other kinds of optional socket.<br>TYPE-2,3 (standard model) ; TYPE-1,4,5 (optional model) |        |        |           |           |        |

## 100~2300W Power Supply For Harsh Environments

## HEP Series



## ■ HEP-100~600 Features

- Universal AC input/Full range: 85~264VAC
- Active PFC, high efficiency up to 96%
- No load power consumption<0.5W at remote OFF (HEP-600)
- Aluminum case and filling with heat-conducted glue, fanless design
- -55~+70°C wide operating temperature(HEP-600: -40~+70°C)
- Meet 6KV surge immunity level
- Withstand 10G vibration test
- Operating altitude up 5000 meters
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Various functions for selection:  
A-Type (Standard): IP65, Vo and Io can be adjusted through internal potentiometer  
Blank-Type (Optional): IP68, Vo and Io cannot be adjusted (Except for HEP-600)
- Suitable for industrial applications in high/low temperature, high humidity, high vibration or outdoor
- 6 years warranty

## ■ HEP-1000~2300 Features

- Universal AC input/Full range: 90~305VAC
- Active PFC, high efficiency up to 96%
- Aluminum case fanless design, filling with head-conducted glue
- Withstand 10G vibration test
- -40~+70°C wide operating temperature
- Charger for lead-acid batteries and Li-ion batteries
- Built-in default 2/3 stage charging curves and programmable curve
- Built-in CANBus; PMBus/Modbus selectable (Only HEP-2300)
- Output voltage and constant current level programmable
- Remote ON/OFF control (Except for HEP-1000 Terminal Type)
- DC OK active signal and auxiliary power available
- HEP-2300 harness connector type with AC fail and T-Alarm signal
- Protections: Short circuit/Overload/Over voltage/Over temp.
- IP67 design for indoor or outdoor installation (Wiring Type)
- LED indicator for power on (Except for HEP-1000 as Terminal Type)
- 6 years warranty

## ■ Models

IP65 IP67 PMBus IPFC CB UL cUL us ENEC CE UK CA

| Model No.   | HEP-100-□    | HEP-150-□    | HEP-185-□    | HEP-240-□    |
|-------------|--------------|--------------|--------------|--------------|
| Vout / Iout | 12V, 0~8.34A | 12V, 0~12.5A | 12V, 0~13A   | 12V, 0~16A   |
|             | 15V, 0~6.67A | 15V, 0~10A   | 15V, 0~11.5A | 15V, 0~15A   |
|             | 24V, 0~4A    | 24V, 0~6.3A  | 24V, 0~7.8A  | 24V, 0~10A   |
|             | 36V, 0~2.65A | 36V, 0~4.2A  | 36V, 0~5.2A  | 36V, 0~6.7A  |
|             | 48V, 0~2A    | 48V, 0~3.2A  | 48V, 0~3.9A  | 48V, 0~5A    |
|             | 54V, 0~1.77A | 54V, 0~2.8A  | 54V, 0~3.45A | 54V, 0~4.45A |

| Model No.   | HEP-320-□     | HEP-480-□    | HEP-600      | HEP-1000-○ |                | HEP-2300-○ |               |
|-------------|---------------|--------------|--------------|------------|----------------|------------|---------------|
| Vout / Iout | 12V, 0~22.0A  | 24V, 0~20A   | 12V, 0~40A   | Power      | 24V, 0~42A     | Power      | 55V, 0~48A    |
|             | 15V, 0~19.0A  | 36V, 0~13.3A | 15V, 0~36A   |            | 48V, 0~21A     | charger    | 57.6V, 0~48A  |
|             | 24V, 0~13.34A | 48V, 0~10A   | 20V, 0~28A   |            | 100V, 0~10A    |            |               |
|             | 36V, 0~8.90A  | 54V, 0~8.9A  | 24V, 0~25A   | charger    | 28.8V, 0~35A   |            | 115V, 0~20A   |
|             | 48V, 0~6.70A  |              | 30V, 0~20A   |            | 57.6V, 0~17.5A | charger    | 230V, 0~10.6A |
|             | 54V, 0~5.95A  |              | 36V, 0~16.7A |            | 115.2V, 0~8.7A |            | 380V, 0~6.9A  |
|             |               |              | 42V, 0~14.3A |            |                |            |               |
|             |               |              | 48V, 0~12.5A |            |                |            |               |
|             |               |              | 54V, 0~11.2A |            |                |            |               |

□=A or Blank A: Standard model(IP65) Blank: Optional model(IP68)

○=Blank, W, H(2300W only) Blank:Terminal type W: Wiring type with IP67 H: Harness connector type

# PSC/ADS/AD/ADD Series

35~160W PCB/Enclosed Type (With UPS)  
Single/Dual Output Security Power



PSC-35  
(3.3"x 2")



PSC-60  
(4"x 2")



PSC-100  
(5"x 3")



PSC-160  
(6"x 3")



ADS-55  
AD-55  
ADD-55  
159x97x38 mm



PSC-35x-C



PSC-60x-C



PSC-100x-C



PSC-160x-C



ADS-155  
AD-155  
ADD-155  
199x110x50 mm



Spec

## PSC Features

- Universal AC input/Full range: 90~264VAC
- Single output with built-in battery charger circuit (UPS function)
- PCB (PSC) & Enclosed (PSC-C) Type multiple option
- Compact size
- Protections: Short circuit/Overload/Over voltage/Battery low/Battery reverse polarity(fuse)
- Alarm signal for AC OK and battery reverse low
- Fanless design, free air convection
- -30~+70°C wide operating temperature
- 2 years warranty

## ADS/AD/ADD Features

- Universal AC input/Full range: 88~264VAC
- Fanless design
- ADS: Single output, additional 5V with no external battery
- AD: Built-in battery charging control for single output, and external battery can be used to form UPS
- ADD: Dual output with built-in battery charging control, and external batteries can be connected to form UPS
- Protections: Short circuit/Overload/Over voltage/Battery low voltage (except ADS series)/Battery polarity (AD/ADD-155)
- -10~+60°C working temperature
- Support 12V/24V/48V system
- 2 years warranty

## Models



| Model No.      | Output Number    | PSC-35A□                                                                          | PSC-35B□       | PSC-60A□       | PSC-60B□       |
|----------------|------------------|-----------------------------------------------------------------------------------|----------------|----------------|----------------|
| Vout / Iout    | CH1 (Main Power) | 13.8V, 0~2.6A                                                                     | 27.6V, 0~1.3A  | 13.8V, 0~4.3A  | 27.6V, 0~2.15A |
|                | CH2 (Charging)   | 13.8V, 0~0.9A                                                                     | 27.6V, 0~0.45A | 13.8V, 0~1.5A  | 27.6V, 0~0.75A |
| Dimension (mm) |                  | PCB: 84.6x50.8x24 Enclosed: 86.4x59.6x30 PCB: 101.6x50.8x29 Enclosed: 103.4x62x37 |                |                |                |
| Model No.      | Output Number    | PSC-100A□                                                                         | PSC-100B□      | PSC-160A□      | PSC-160B□      |
| Vout / Iout    | CH1 (Main Power) | 13.8V, 0~7A                                                                       | 27.6V, 0~3.5A  | 13.8V, 0~11.6A | 27.6V, 0~5.8A  |
|                | CH2 (Charging)   | 13.8V, 0~2.5A                                                                     | 27.6V, 0~1.25A | 13.8V, 0~4A    | 27.6V, 0~2A    |
| Dimension (mm) |                  | PCB : 127x76.2x31 Enclosed: 130x85x37 PCB : 152.4x76.2x32 Enclosed: 155.4x85x37   |                |                |                |

□=Blank, -C Blank:PCB Type -C: Enclosed Type

| Model No.   | Output Number         | ADS-5512  | ADS-5524    | ADS-15512    | ADS-15524   | ADS-15548   |
|-------------|-----------------------|-----------|-------------|--------------|-------------|-------------|
| Vout / Iout | CH1 (Main Power)      | 12V, 0~4A | 24V, 0~2.5A | 12V, 0~12.5A | 24V, 0~6.5A | 48V, 0~3.2A |
|             | CH2 (Auxiliary Power) | 5V, 0~4A  | 5V, 0~4A    | 5V, 0~3A     | 5V, 0~3A    | 5V, 0~3A    |

| Model No.   | Output Number    | AD-55A         | AD-55B         | AD-155A        | AD-155B       | AD-155C       |
|-------------|------------------|----------------|----------------|----------------|---------------|---------------|
| Vout / Iout | CH1 (Main Power) | 13.8V, 0~4A    | 27.6V, 0~2A    | 13.8V, 0~11.5A | 27.6V, 0~5.5A | 54V, 0~2.7A   |
|             | CH2 (Charging)   | 13.4V, 0~0.23A | 26.5V, 0~0.16A | 13.3V, 0~0.5A  | 27.1V, 0~0.5A | 53.5V, 0~0.5A |

| Model No.   | Output Number         | ADD-55A        | ADD-55B        | ADD-155A       | ADD-155B      | ADD-155C      |
|-------------|-----------------------|----------------|----------------|----------------|---------------|---------------|
| Vout / Iout | CH1 (Main Power)      | 13.8V, 0~3.5A  | 27.6V, 0~2A    | 13.8V, 0~10.5A | 27.6V, 0~5A   | 54V, 0~2.5A   |
|             | CH2 (Auxiliary Power) | 5V, 0~4A       | 5V, 0~4A       | 5V, 0~3A       | 5V, 0~3A      | 5V, 0~3A      |
|             | CH3 (Charging)        | 13.4V, 0~0.23A | 26.5V, 0~0.16A | 13.3V, 0~0.5A  | 27.1V, 0~0.5A | 53.5V, 0~0.2A |

SCP: 35~75W Enclosed Type Single Output Security Power  
LAD: 120~600W Enclosed Type Security/Fire Alarm with UPS Function

# SCP/LAD Series



## SCP Features

- Universal AC input/Full range: 85~264VAC
- Basic model, can be plugged in with an external battery, does not have battery charging control
- Fanless design, free air convection
- Output voltage detection signal
- Temperature compensation function
- No load power consumption <0.75W
- Protections: Short Circuit/Overload/Over Voltage/ Battery Reverse Polarity Protection by Fuse
- -20~+60°C operating temperature
- LED indicator for power on
- 2 years warranty

## LAD Features



- Universal AC input / Full range  
(120W: 90~264VAC, 240~600W: 115/230VAC by S.W)
- Single output with battery charging control, external battery can be connected to constitute UPS function
- Built-in TTL signals for status detection: AC OK, Battery Disconnect, Battery Reverse Polarity, Battery Undervoltage, Fully Charged and Backedup
- UART Communication (LAD-360/600 U Type Only)
- Built-in main and backup circuit enhance maintenance safety
- CH1 output voltage adjustable(-20~+5%) by VR
- Built-in buzzer alarm (LAD-360/600 U Type Only)
- Forced UPS activation for battery maintenance
- Protections: Short circuit/Overload/Over voltage/Over temp./ Battery under voltage/Battery reverse polarity (No damage)
- -20~+60°C operating temperature
- Comply with fire regulation GB17945
- 1U low profile (30mm)
- 3 years warranty

## Models



| Model No.      | SCP-35        | SCP-50        | SCP-75        |
|----------------|---------------|---------------|---------------|
| Vout / Iout    | 13.8V, 0~2.6A | 13.8V, 0~3.6A | 13.8V, 0~5.4A |
|                | 27.6V, 0~1.4A | 27.6V, 0~1.8A | 27.6V, 0~2.7A |
| Dimension (mm) | 99x97x36      | 129x98x38     | 159x97x38     |

| Model No.   | Output Number  | LAD-120A      | LAD-120B      | LAD-120C      | LAD-120D       |
|-------------|----------------|---------------|---------------|---------------|----------------|
| Vout / Iout | CH1            | 13.8V, 0~8.7A | 27.6V, 0~4.4A | 41.5V, 0~2.9A | 55.2V, 0~2.21A |
|             | CH2 (Charging) | 13.8V, 0~1A   | 27.6V, 0~1A   | 41.5V, 0~1A   | 55.2V, 0~1A    |

| Model No.   | Output Number  | LAD-240A       | LAD-240B      | LAD-240C       | LAD-240D      |
|-------------|----------------|----------------|---------------|----------------|---------------|
| Vout / Iout | CH1            | 13.8V, 0~17.4A | 27.6V, 0~8.7A | 41.5V, 0~5.78A | 55.2V, 0~4.4A |
|             | CH2 (Charging) | 13.8V, 0~1A    | 27.6V, 0~1A   | 41.5V, 0~1A    | 55.2V, 0~1A   |

| Model No.   | Output Number  | LAD-360B <sup>U</sup> | LAD-360C <sup>U</sup> | LAD-360D <sup>U</sup> |
|-------------|----------------|-----------------------|-----------------------|-----------------------|
| Vout / Iout | CH1            | 27.6V, 0~13A          | 41.5V, 0~8.64A        | 55.2V, 0~6.53A        |
|             | CH2 (Charging) | 27.6V, 0~1.5A         | 41.5V, 0~1.5A         | 55.2V, 0~1.5A         |

| Model No.   | Output Number  | LAD-600B <sup>U</sup> | LAD-600C <sup>U</sup> | LAD-600D <sup>U</sup> |
|-------------|----------------|-----------------------|-----------------------|-----------------------|
| Vout / Iout | CH1            | 27.6V, 0~21.74A       | 41.5V, 0~14.45A       | 55.2V, 0~10.87A       |
|             | CH2 (Charging) | 27.6V, 0~3A           | 41.5V, 0~3A           | 55.2V, 0~3A           |

U: Built-in UART Communication



# DRC/DRS Series 40~480W Security/Fire Alarm DIN Rail



DRC-40 40x90x100 mm    DRC-60 40x90x100 mm    DRC-100 55x90x100 mm    DRC-180 63x125.2x113.5 mm    DRS-240 85.5x125.2x129.2 mm    DRS-480 110x125.2x150.7 mm



Spec

## DRC Features

- Universal AC input/Full range: 90~264VAC
- Single output with battery charging control, external battery can be connected to constitute UPS function
- Pass LPS (DRC-40/60)
- Fanless design, free air convection
- Alarm signal for AC OK and battery low via relay contact
- Protections: Short circuit/Overload/Over voltage/Battery low /Battery reverse polarity(fuse)
- -30~+70°C wide operating temperature
- LED indicator for power on
- 3 years warranty

## DRS Features

- Universal AC input/Full range: 90~305VAC
- Integrated multifunctional intelligent power supply for Security/Fire Alarm (Power Supply, DC-UPS, Battery Charging, and Status Monitoring)
- Signal and alarms design meet UL2524/EN54-4/GB17945 requirement
- Load power prioritized when the AC power grid is abnormal
- Form-C relay, detects AC fail, DC OK, low battery voltage, abnormal detection of charging circuit
- Built-in MODBus protocol (CANBus optional)
- Protections: Short circuit/Overload/Over voltage/Over temp. (auto derating)/Battery discharged/Battery undervoltage/Battery reverse polarity (No damage)
- 20~100% charging current adjustable by VR
- 2 or 3 charging curves, adjustable by DIP S.W
- -30~+70°C wide operating temperature
- Suitable for lead acid and lithium-ion batteries
- 3 years warranty

## Models



(DRC-180/DRS)

| Model No.   | Output Number    | DRC-40A       | DRC-40B        | DRC-60A       | DRC-60B        |
|-------------|------------------|---------------|----------------|---------------|----------------|
| Vout / Iout | CH1 (Main Power) | 13.8V, 0~2.9A | 27.6V, 0~1.45A | 13.8V, 0~4.3A | 27.6V, 0~2.15A |
|             | CH2 (Charging)   | 13.8V, 0~1A   | 27.6V, 0~0.5A  | 13.8V, 0~1.5A | 27.6V, 0~0.75A |

| Model No.   | Output Number    | DRC-100A      | DRC-100B       | DRC-180A    | DRC-180B      |
|-------------|------------------|---------------|----------------|-------------|---------------|
| Vout / Iout | CH1 (Main Power) | 13.8V, 0~7A   | 27.6V, 0~3.5A  | 13.8V, 0~9A | 27.6V, 0~4.5A |
|             | CH2 (Charging)   | 13.8V, 0~2.5A | 27.6V, 0~1.25A | 13.8V, 0~4A | 27.6V, 0~2A   |

| Model No.   | DRS-240     | DRS-480      |
|-------------|-------------|--------------|
| Vout / Iout | 12V, 0~20A  | 24V, 0~20A   |
|             | 24V, 0~10A  | 36V, 0~13.3A |
|             | 36V, 0~6.6A | 48V, 0~10A   |
|             | 48V, 0~5A   |              |

Note:  
DRS series built-in high current charging function  
Total Output Wattage =  
Charging Wattage + Load Wattage

| Product Profile | Type                                                                                | Series Name                                                                             | Watt.                                                                                   | Function     |               |                |              |              |              |              |                        |                           | Design ref. Safety |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------|---------------|----------------|--------------|--------------|--------------|--------------|------------------------|---------------------------|--------------------|
|                 |                                                                                     |                                                                                         |                                                                                         | Charger      | Charging Adj. | UPS            | AC OK        | DC OK        | BAT. Low     | No BAT.      | Alarm                  | Com                       |                    |
| Basic           |  | SCP                                                                                     | 35W<br>50W<br>75W                                                                       |              |               |                |              |              |              |              |                        |                           |                    |
|                 |                                                                                     | AD                                                                                      | 55W<br>155W                                                                             | ✓            |               |                |              |              |              |              |                        |                           |                    |
| Advance         | Enclosed                                                                            |  LAD | 120W<br>240W<br>360W<br>600W                                                            | ✓            |               | ✓              | ✓<br>(TTL)   |              | ✓<br>(TTL)   |              | ✓<br>(buzzer optional) | 360/600w<br>UART optional | GB17945            |
|                 |  |  PSC | 35W<br>60W<br>100W<br>160W                                                              | ✓            |               | ✓              | ✓<br>(RELAY) |              | ✓<br>(TTL)   |              |                        |                           |                    |
|                 |                                                                                     |  DRC | 40W<br>60W<br>100W<br>180W                                                              | ✓            |               | ✓              | ✓<br>(RELAY) |              | ✓<br>(TTL)   |              |                        |                           |                    |
|                 | Premium                                                                             | DIN-Rail (Quick Attach)                                                                 |  DRS | 240W<br>480W | ✓             | ✓<br>(20-100%) | ✓            | ✓<br>(RELAY) | ✓<br>(RELAY) | ✓<br>(RELAY) | ✓<br>(RELAY)           | ✓<br>(MODBus)             | ✓<br>(MODBus)      |



KNX-20E-640

W52.5x H90x D54.5mm



KNX-40E-1280

W72x H90x D57mm



KAA-8R-16S  
KAA-8R-10S

W70x H90x D57mm



KAA-4R4V-10S

W70x H90x D57mm



Spec

## KNX Features

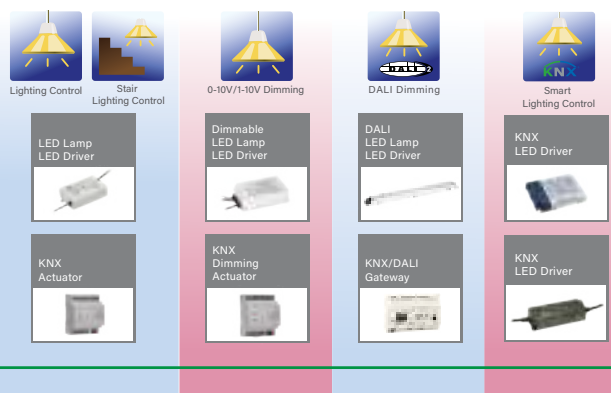
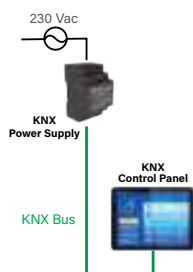
- EIB / KNX power supply with Integrated choke
- 180~264VAC Input
- No load power consumption < 0.5W
- Safety Extra Low Voltage (SELV)
- Isolation class I
- Over voltage category III
- LED indicator for normal operation, bus reset and bus overload
- Compact size
- Protections: Short circuit/Overload/Over voltage
- 3 years warranty

## KAA Features

- KNX LED switching driver/dimmer
- Dimming and lighting control of LED driver & electrical ballast (KAA-4R4V)
- Linear or logarithmic dimming curve programmable via ETS software (KAA-4R4V)
- 8 channel actuator in a compact size (KAA-8R)
- For AX, C-load, capacitive & inductive of loads (KAA-8R)
- Manual control via Push button on panel
- Programmable various time and scene function
- 3 years warranty

- ▶ MEAN WELL also provide KNX lighting control solution, please check our standard LED driver catalog or visit our website

<https://www.meanwell.com>



### Durability of KNX Actuator

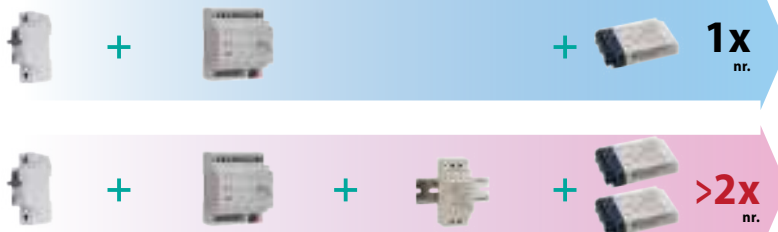
All MEAN WELL KNX actuator has been tested more than standard to 220μF to ensure long term operation in the system. In case even higher demand is required, the inrush current limiter can be placed between KNX actuator and the loads to further increase the capacitive load to 2500μF.

Circuit Breaker

KNX Switching Actuator  
**KAA-8R / KAA-4R4V**

Inrush Current Limiter  
**ICL-16R**

Capacitive Load  
e.g. LED Driver



NOTE: The max. number connected load is no more limited by its inrush current.



# LSP/UHP/ERP Series LED Display and Outdoor Lighting Power Supply



Spec

## LSP/UHP Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 secs.
- Slim width and low profile
- Built-in active PFC function
- Built-in current sharing (LSP-160 series output below 5V)
- Fanless design, free air convection
- DC OK active signal function
- Protections: Short circuit/Overload/Over voltage/Over temp.
- LED indicator for power on
- 3 years warranty

## ERP Features

- Constant voltage output
- Withstand 300VAC surge input for 5 secs.
- Metal case with semi-potted design, against rain splash
- Built-in active PFC function (ERPF Series)
- No-load/standby power consumption <0.5W
- Protections: Short circuit/Overload/Over voltage/Over temp.
- 3 years warranty

## Models



| Model No.   | LSP-160□-xx○ | UHP-200A    | ERP-200      | ERP-350      | ERPF-400     |
|-------------|--------------|-------------|--------------|--------------|--------------|
| Vin         | 100~264VAC   | 90~264VAC   | 180~264VAC   | 180~264VAC   | 90~264VAC    |
| Vout / Iout | 3.3V, 0~32A  | 4.2V, 0~40A | 12V, 0~16.8A | 12V, 0~26.7A | 12V, 0~30A   |
|             | 4.2V, 0~32A  | 4.5V, 0~40A | 24V, 0~8.33A | 24V, 0~14.6A | 24V, 0~16.7A |
|             | 5V, 0~32A    | 5V, 0~40A   |              | 36V, 0~9.7A  | 48V, 0~8.3A  |
|             | 12V, 0~13.5A |             |              | 48V, 0~7.3A  |              |
|             | 24V, 0~6.75A |             |              |              |              |
|             | 36V, 0~4.5A  |             |              |              |              |
|             | 48V, 0~3.4A  |             |              |              |              |

□ = Blank or R      Blank: Enclosed      R: Current sharing function (3.3/4.2/5V)  
 ○ = T or W      T: For terminal block;      W: For wafer connector (By Request)



## Features

- 2:1 wide input range (SD-15~350)
- 4:1 wide input range (SD-500/1000)
- I/O isolation: 1.5KVAC (SD-15~350)  
2KVAC (SD-500/1000)
- Protections: Short circuit/Overload/Over voltage;  
Over temp. (200~1000W) /Input polarity (500W only)
- Fanless design, cooling by free air convection (SD-15~200)
- Forced air cooling by built-in DC fan (SD-350~1000)
- DC input active surge current limiting (SD-500 only)
- Output OK signal (SD-500/1000)
- 12 Vaux / 0.25A output (SD-500/1000)
- Built-in remote ON/OFF control and remote sense (SD-500/1000)
- 2 years warranty (SD-15~350)
- 3 years warranty (SD-500/1000)

## Models



| Model No.   | SD-15A        | SD-15B        | SD-15C        | SD-25A      | SD-25B      | SD-25C      |
|-------------|---------------|---------------|---------------|-------------|-------------|-------------|
| Vin         | 9.2~18VDC     | 18~36VDC      | 36~72VDC      | 9.2~18VDC   | 19~36VDC    | 36~72VDC    |
| Vout / Iout | 5V, 0~3A      | 5V, 0~3A      | 5V, 0~3A      | 5V, 0~5A    | 5V, 0~5A    | 5V, 0~5A    |
|             | 12V, 0~1.25A  | 12V, 0~1.25A  | 12V, 0~1.25A  | 12V, 0~2.1A | 12V, 0~2.1A | 12V, 0~2.1A |
|             | 24V, 0~0.625A | 24V, 0~0.625A | 24V, 0~0.625A | 24V, 0~1.1A | 24V, 0~1.1A | 24V, 0~1.1A |

| Model No.   | SD-50A      | SD-50B      | SD-50C      | SD-100A     | SD-100B     | SD-100C     | SD-100D     |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Vin         | 9.2~18VDC   | 19~36VDC    | 36~72VDC    | 9.5~18VDC   | 19~36VDC    | 36~72VDC    | 72~144VDC   |
| Vout / Iout | 5V, 0~10A   | 5V, 0~10A   | 5V, 0~10A   | 5V, 0~18A   | 5V, 0~20A   | 5V, 0~20A   | 5V, 0~20A   |
|             | 12V, 0~4.2A | 12V, 0~4.2A | 12V, 0~4.2A | 12V, 0~8.5A | 12V, 0~8.5A | 12V, 0~8.5A | 12V, 0~8.5A |
|             | 24V, 0~2.1A | 24V, 0~2.1A | 24V, 0~2.1A | 24V, 0~4.2A | 24V, 0~4.2A | 24V, 0~4.2A | 24V, 0~4.2A |

| Model No.   | SD-150B      | SD-150C      | SD-150D      | SD-200B      | SD-200C      | SD-200D      |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Vin         | 19~36VDC     | 36~72VDC     | 72~144VDC    | 19~36VDC     | 36~72VDC     | 72~144VDC    |
| Vout / Iout | 12V, 0~12.5A | 12V, 0~12.5A | 12V, 0~12.5A | 5V, 0~34A    | 5V, 0~40A    | 5V, 0~40A    |
|             | 24V, 0~6.3A  | 24V, 0~6.3A  | 24V, 0~6.3A  | 12V, 0~16.7A | 12V, 0~16.7A | 12V, 0~16.7A |
|             |              |              |              | 24V, 0~8.4A  | 24V, 0~8.4A  | 24V, 0~8.4A  |
|             |              |              |              | 48V, 0~4.2A  | 48V, 0~4.2A  | 48V, 0~4.2A  |

| Model No.   | SD-350B      | SD-350C      | SD-350D      | SD-500L      | SD-500H      | SD-1000L   | SD-1000H   |
|-------------|--------------|--------------|--------------|--------------|--------------|------------|------------|
| Vin         | 19~36VDC     | 36~72VDC     | 72~144VDC    | 19~72VDC     | 72~144VDC    | 19~72VDC   | 72~144VDC  |
| Vout / Iout | 5V, 0~57A    | 5V, 0~60A    | 5V, 0~60A    | 12V, 0~40A   | 12V, 0~40A   | 12V, 0~60A | 12V, 0~60A |
|             | 12V, 0~27.5A | 12V, 0~27.5A | 12V, 0~29.2A | 24V, 0~21A   | 24V, 0~21A   | 24V, 0~40A | 24V, 0~40A |
|             | 24V, 0~14.6A | 24V, 0~14.6A | 24V, 0~14.6A | 48V, 0~10.5A | 48V, 0~10.5A | 48V, 0~21A | 48V, 0~21A |
|             | 48V, 0~7.3A  | 48V, 0~7.3A  | 48V, 0~7.3A  |              |              |            |            |

# RSD Series

## 30~500W Enclosed Type Railway & ITE DC-DC Converter



RSD-30  
113x60x25mm



RSD-60  
128x60x25mm



RSD-100  
161x68x36mm



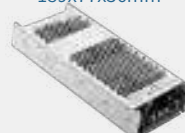
RSD-150  
189x77x36mm



RSD-200  
191x86x40mm



RSD-300  
216x96.5x40mm



RSD-500  
237x100x41mm



Spec

## Features

- **Railway & ITE dual certification**
- 2:1 wide input range (RSD-100~500)
- 4:1 wide input range (RSD-30/60)
- **4KVDC** I/O reinforced isolation
- Protections: Short circuit/Overload/Over voltage/Over temp./DC Input reverse polarity
- **Fanless design**, cooling by free air convection
- **-40~+70°C** wide operating temperature (RSD-500: **-40~+80°C**)
- Built-in constant current limiting circuit
- Ultra compact and 1U low profile (25~41 mm)
- **Half encapsulated, moistureproof, dustproof and 5G vibration resistance**
- All using 105°C long life electrolytic capacitors
- LED indicator for power on
- 3 years warranty

## Models



| Model No.   | RSD-30G      | RSD-30L      | RSD-30H      | RSD-60G     | RSD-60L     | RSD-60H     |
|-------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Vin         | 9~36VDC      | 18~72VDC     | 40~160VDC    | 9~36VDC     | 18~72VDC    | 40~160VDC   |
| Vout / Iout | 3.3V, 0~6A   | 3.3V, 0~6A   | 3.3V, 0~6A   | 3.3V, 0~12A | 3.3V, 0~12A | 3.3V, 0~12A |
|             | 5V, 0~6A     | 5V, 0~6A     | 5V, 0~6A     | 5V, 0~12A   | 5V, 0~12A   | 5V, 0~12A   |
|             | 12V, 0~2.5A  | 12V, 0~2.5A  | 12V, 0~2.5A  | 12V, 0~5A   | 12V, 0~5A   | 12V, 0~5A   |
|             | 24V, 0~1.25A | 24V, 0~1.25A | 24V, 0~1.25A | 24V, 0~2.5A | 24V, 0~2.5A | 24V, 0~2.5A |

| Model No.   | RSD-100B     | RSD-100C     | RSD-100D    | RSD-150B     | RSD-150C     | RSD-150D     |
|-------------|--------------|--------------|-------------|--------------|--------------|--------------|
| Vin         | 16.8~31.2VDC | 33.6~62.4VDC | 67.2~143VDC | 16.8~31.2VDC | 33.6~62.4VDC | 67.2~143VDC  |
| Vout / Iout | 5V, 0~20A    | 5V, 0~20A    | 5V, 0~20A   | 5V, 0~30A    | 5V, 0~30A    | 5V, 0~30A    |
|             | 12V, 0~8.4A  | 12V, 0~8.4A  | 12V, 0~8.4A | 12V, 0~12.5A | 12V, 0~12.5A | 12V, 0~12.5A |
|             | 24V, 0~4.2A  | 24V, 0~4.2A  | 24V, 0~4.2A | 24V, 0~6.3A  | 24V, 0~6.3A  | 24V, 0~6.3A  |
|             |              |              |             |              |              |              |

| Model No.   | RSD-200B     | RSD-200C     | RSD-200D     | RSD-500B     | RSD-500C     | RSD-500D     |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Vin         | 16.8~31.2VDC | 33.6~62.4VDC | 67.2~143VDC  | 16.8~33.6VDC | 33.6~67.2VDC | 67.2~154VDC  |
| Vout / Iout | 12V, 0~16.7A | 12V, 0~16.7A | 12V, 0~16.7A | 12V, 0~35A   | 12V, 0~35A   | 12V, 0~35A   |
|             | 24V, 0~8.4A  | 24V, 0~8.4A  | 24V, 0~8.4A  | 24V, 0~17.5A | 24V, 0~19.2A | 24V, 0~20.8A |
|             | 48V, 0~4.2A  | 48V, 0~4.2A  | 48V, 0~4.2A  | 48V, 0~8.8A  | 48V, 0~9.6A  | 48V, 0~10.4A |
|             |              |              |              |              |              |              |

| Model No.   | RSD-300B     | RSD-300C     | RSD-300D     | RSD-300E     | RSD-300F     |
|-------------|--------------|--------------|--------------|--------------|--------------|
| Vin         | 16.8~31.2VDC | 33.6~62.4VDC | 67.2~143VDC  | 25.2~46.8VDC | 50.4~93.6VDC |
| Vout / Iout | 5V, 0~42A    | 5V, 0~42A    | 5V, 0~42A    | 5V, 0~42A    | 5V, 0~42A    |
|             | 12V, 0~22.5A | 12V, 0~25A   | 12V, 0~25A   | 12V, 0~25A   | 12V, 0~25A   |
|             | 24V, 0~11.3A | 24V, 0~12.5A | 24V, 0~12.5A | 24V, 0~12.5A | 24V, 0~12.5A |
|             | 48V, 0~5.7A  | 48V, 0~6.3A  | 48V, 0~6.3A  | 48V, 0~6.3A  | 48V, 0~6.3A  |



## ■ DDR-15~60 Features

- Plastic case
- **4:1** ultra-wide input range
- Compact size with 1SU~3SU width
- **Fanless design**, cooling by free air convection
- DIN Rail: TS-35/7.5 or TS-35/15
- **4KVDC** I/O Reinforced isolation
- **-40~+85°C** wide operating temperature
- DC output adjustable (+/-10%)
- Protections: Short circuit/Overload/Over voltage/Input reverse polarity/Input Under Voltage
- 3 years warranty

## ■ DDR-120~480 Features

- Metal case
- **2:1** wide input range
- **Railway & ITE dual certification**
- **150%** peak load capability
- **-40~+70°C** wide operating temperature
- **Fanless design**, cooling by free air convection
- DIN Rail: TS-35/7.5 or TS-35/15
- **4KVDC** I/O Reinforced isolation
- DC output adjustable ( $\pm 15\%$ )
- DC OK relay contact and Remote ON/OFF(DDR-240/480 only)
- **Current sharing function** with 3+1 (DDR-240/480 only; 960W/1920W Max. )
- Protections: Short circuit/Overload/Over voltage/Input reverse polarity/Input under voltage
- 3 years warranty

## ■ Models

CB c us

| Model No.   | DDR-15G      | DDR-15L      | DDR-30G      | DDR-30L      | DDR-60G     | DDR-60L     |
|-------------|--------------|--------------|--------------|--------------|-------------|-------------|
| Vin         | 9~36VDC      | 18~75VDC     | 9~36VDC      | 18~75VDC     | 9~36VDC     | 18~75VDC    |
| Vout / Iout | 3.3V, 0~3.5A | 3.3V, 0~4.5A | 5V, 0~6A     | 5V, 0~6A     | 5V, 0~10.8A | 5V, 0~12A   |
|             | 5V, 0~3A     | 5V, 0~3A     | 12V, 0~2.5A  | 12V, 0~2.5A  | 12V, 0~5A   | 12V, 0~5A   |
|             | 12V, 0~1.25A | 12V, 0~1.25A | 15V, 0~2A    | 15V, 0~2A    | 15V, 0~4A   | 15V, 0~4A   |
|             | 15V, 0~1A    | 15V, 0~1A    | 24V, 0~1.25A | 24V, 0~1.25A | 24V, 0~2.5A | 24V, 0~2.5A |
|             | 24V, 0~0.63A | 24V, 0~0.63A |              |              |             |             |

| Model No.   | DDR-120A    | DDR-120B     | DDR-120C     | DDR-120D    | DDR-240B     | DDR-240C     | DDR-240D    |
|-------------|-------------|--------------|--------------|-------------|--------------|--------------|-------------|
| Vin         | 9~18VDC     | 16.8~33.6VDC | 33.6~67.2VDC | 67.2~154VDC | 16.8~33.6VDC | 33.6~67.2VDC | 67.2~154VDC |
| Vout / Iout | 12V, 0~8.3A | 12V, 0~10A   | 12V, 0~10A   | 12V, 0~10A  | 24V, 0~10A   | 24V, 0~10A   | 24V, 0~10A  |
|             | 24V, 0~4.2A | 24V, 0~5A    | 24V, 0~5A    | 24V, 0~5A   | 48V, 0~5A    | 48V, 0~5A    | 48V, 0~5A   |
|             | 48V, 0~2.1A | 48V, 0~2.5A  | 48V, 0~2.5A  | 48V, 0~2.5A |              |              |             |

| Model No.   | DDR-480B     | DDR-480C     | DDR-480D     |
|-------------|--------------|--------------|--------------|
| Vin         | 16.8~33.6VDC | 33.6~67.2VDC | 67.2~154VDC  |
| Vout / Iout | 12V, 0~33.4A | 12V, 0~33.4A | 12V, 0~33.4A |
|             | 24V, 0~20A   | 24V, 0~20A   | 24V, 0~20A   |
|             | 48V, 0~10A   | 48V, 0~10A   | 48V, 0~10A   |

# DDRH/RSDH Series

15~300W 150~1500VDC High Input Voltage  
for PV/Energy Storage DC-DC Converter



DDRH-15  
DDRH-30  
DDRH-45

DDRH-15-ST  
DDRH-30-ST  
DDRH-45-ST

DDRH-15-DR  
DDRH-30-DR  
DDRH-45-DR

DDRH-60

DDRH-120

DDRH-240

RSDH-150

RSDH-300



Spec

## ■ DDRH Features

- **150~1500VDC** 10:1 ultra-wide input range (DDRH-15~60)
- **250~1500VDC** 6:1 ultra-wide input range (DDRH-120/240)
- 4KVDC I/O reinforced isolation
- **Fanless design**, cooling by free air convection
- **Potted with silicone, dust and moisture proof** (DDRH-15~60)
- DIN Rail: TS-35/7.5 or TS-35/15
- Protections: Short circuit/Overload/Over voltage/Over temp./DC Input under voltage/DC Input reverse polarity
- **-40~+80°C** wide operating temperature (>+55°C derating based on models)
- **Current sharing function** with 3+1 (DDRH-240 only, **960W Max.**)
- Operating altitude up to **5000 meters**
- OVC II
- DC OK relay contact
- DC output adjustable (+20%, DDRH-60~240 only)
- 3 years warranty

## ■ RSDH Features

- **250~1500VDC** 6:1 ultra-wide input range
- 4KVAC I/O reinforced isolation
- Protections: Short circuit/Overload/Over voltage/Over temp./DC Input under voltage/DC Input reverse polarity
- **Fanless design**, cooling by free air convection
- **Half encapsulated, dustproof, moistureproof, 3G vibration resistance**
- **-40~+80°C** wide operating temperature (>+55°C derating)
- OVC II
- Operating altitude up to **5000** meters
- DC output adjustable (+20%)
- 1U low profile (41mm)
- 3 years warranty

## ■ Models

CB DEKRA ENEC UKCA

| Model No.      | DDRH-15-xx□                                                    | DDRH-30-xx□                                          | DDRH-45-xx□  | DDRH-60      | DDRH-120     | DDRH-240         |
|----------------|----------------------------------------------------------------|------------------------------------------------------|--------------|--------------|--------------|------------------|
| Vout / Iout    | 5V, 0~2A                                                       | 12V, 0~2.5A                                          | 12V, 0~3.75A | 5V, 0~10A    | 12V, 0~8.4A  | 12V, 0~16.7A     |
|                | 12V, 0~1.25A                                                   | 15V, 0~2A                                            | 15V, 0~3A    | 12V, 0~5A    | 24V, 0~5A    | 24V, 0~10A       |
|                | 15V, 0~1A                                                      | 24V, 0~1.25A                                         | 24V, 0~1.87A | 24V, 0~2.5A  | 32V, 0~3.75A | 32V, 0~7.5A      |
|                | 24V, 0~0.625A                                                  | 48V, 0~0.625A                                        | 48V, 0~0.93A | 48V, 0~1.25A | 48V, 0~2.5A  | 48V, 0~5A        |
| Dimension (mm) | P : 76.2x50.8x25<br>ST : 122.3x57.3x32<br>DR : 122.3x57.3x43.5 | P : 89x63.5x25<br>ST : 135x70x32<br>DR : 135x70x43.5 |              | 57x93.5x105  | 63x125.2x115 | 85.5x125.2x129.2 |

□=P (PCB mounting); ST (Screw Terminal); DR (DIN Rail Type)

| Model No.      | RSDH-150     | RSDH-300     |
|----------------|--------------|--------------|
| Vout / Iout    | 12V, 0~10A   | 12V, 0~20A   |
|                | 24V, 0~6.2A  | 24V, 0~12.5A |
|                | 32V, 0~4.68A | 32V, 0~9.37A |
|                | 48V, 0~3.12A | 48V, 0~6.25A |
| Dimension (mm) | 191x86x41    | 237x100x41   |

# Selection Table of DC-DC Module Type



Selection Table  
of DC-DC Module

| Type                        | Package | Series                                                                                                         |            | Watt | Vin                                                | Vout                     | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH)   | Certified                                                                                                                                                                                            |
|-----------------------------|---------|----------------------------------------------------------------------------------------------------------------|------------|------|----------------------------------------------------|--------------------------|-------------------|-------------------|-----------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |         | Picture                                                                                                        | Model      |      |                                                    |                          |                   |                   |                       |                     |                                                                                                                                                                                                      |
| Medical                     | SIP     |                               | MDS01-N    | 1W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V) | 3.3V<br>5V<br>12V<br>15V | Unregulated       | 6KVDC             | -40~+95°C             | 0.77"x 0.28"x 0.45" | UL/CB/<br>EAC/CE/<br>UKCA<br>                                                                                     |
|                             |         |                               | MDD01-N    | 1W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V) | ±5V<br>±12V<br>±15V      |                   | 6KVDC             | -40~+95°C             | 0.77"x 0.28"x 0.45" |                                                                                                                                                                                                      |
|                             |         |                               | MDS02-N    | 2W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V) | 3.3V<br>5V<br>12V<br>15V |                   | 6KVDC             | -40~+95°C             | 0.77"x 0.28"x 0.45" |                                                                                                                                                                                                      |
|                             |         |                               | MDD02-N    | 2W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V) | ±5V<br>±12V<br>±15V      |                   | 6KVDC             | -40~+95°C             | 0.77"x 0.28"x 0.45" |                                                                                                                                                                                                      |
|                             | DIP24   |                               | MDS03      | 3W   | 12V, 48V(9~36V)<br>24V, 48V(18~75V)                | 5V<br>12V<br>15V         | Regulated         | 6KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.48"  | EAC/CE/<br>UKCA<br>                                                                                              |
|                             |         |                               | MDD03      | 3W   | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                | ±5V<br>±12V<br>±15V      |                   | 6KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.48"  |                                                                                                                                                                                                      |
|                             |         |                               | MDS06      | 6W   | 12V, 24V(9~36V)<br>24V, 28V(18~75V)                | 5V<br>12V<br>15V         |                   | 6KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.48"  |                                                                                                                                                                                                      |
|                             |         |                               | MDD06      | 6W   | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                | ±5V<br>±12V<br>±15V      |                   | 6KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.48"  |                                                                                                                                                                                                      |
|                             | 2"x1"   |  | MDS15      | 15W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V)           | 5V<br>12V<br>15V<br>24V  |                   | 4KVAC             | -40~+90°C             | 2"x 1"x 0.47"       |                                                                                                                                                                                                      |
|                             |         |  | MDS20      | 20W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V)           | 5V<br>12V<br>15V<br>24V  |                   | 4KVAC             | -40~+90°C             | 2"x 1"x 0.47"       |                                                                                                                                                                                                      |
| Photovoltaic/Energy Storage | DIP     |                             | DDRH-15-P  | 15W  | 150~1500V                                          | 5V<br>12V<br>15V<br>24V  | Regulated         | 4KVAC             | -40~+80°C             | 3"x 2"x 1"          | UL/EAC/<br>CE/UKCA<br><br> |
|                             |         |                             | DDRH-30-P  | 30W  | 150~1500V                                          | 12V<br>15V<br>24V<br>48V |                   | 4KVAC             | -40~+80°C             | 3.5"x 2.5"x 1"      |                                                                                                                                                                                                      |
|                             |         |                             | DDRH-45-P  | 45W  | 150~1500V                                          | 12V<br>15V<br>24V        |                   | 4KVAC             | -40~+80°C             | 3.5"x 2.5"x 1"      |                                                                                                                                                                                                      |
|                             |         |                             | DDRH-15-TB | 15W  | 150~1500V                                          | 5V<br>12V<br>15V<br>24V  |                   | 4KVAC             | -40~+80°C             | 4.81"x 2.25"x 1.22" |                                                                                                                                                                                                      |
|                             |         |                             | DDRH-30-TB | 30W  | 150~1500V                                          | 12V<br>15V<br>24V<br>48V |                   | 4KVAC             | -40~+80°C             | 5.31"x 2.75"x 1.22" |                                                                                                                                                                                                      |
|                             |         |                             | DDRH-45-TB | 45W  | 150~1500V                                          | 12V<br>15V<br>24V<br>48V |                   | 4KVAC             | -40~+80°C             | 5.31"x 2.75"x 1.22" |                                                                                                                                                                                                      |

# Selection Table of DC-DC Module Type



| Type    | Package   | Series                                                                              |           | Watt | Vin                                                                  | Vout                                   | Output Regulation | Isolation voltage      | Operating temperature | Dimension (LxWxH)  | Certified                                                                                                                                 |
|---------|-----------|-------------------------------------------------------------------------------------|-----------|------|----------------------------------------------------------------------|----------------------------------------|-------------------|------------------------|-----------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|         |           | Picture                                                                             | Model     |      |                                                                      |                                        |                   |                        |                       |                    |                                                                                                                                           |
| Railway | DIP24     |    | RSDW08    | 8W   | 12V, 24V (9~36V)<br>24V, 48V (18~75V)                                | 3.3V<br>5V<br>12V<br>15V               | Regulated         | 1.5KVDC                | -40~+85°C             | 1.25"x 0.8"x 0.4"  | EAC/CE/<br>UKCA<br>                                    |
|         |           |    | RDDW08    | 8W   | 12V, 24V(9~36V)<br>24V, 48V (18~75V)                                 | ±5V<br>±12V<br>±15V                    |                   | 1.5KVDC                | -40~+85°C             | 1.25"x 0.8"x 0.4"  |                                                                                                                                           |
|         |           |    | RSDW10    | 10W  | 72V, 96V, 110V<br>(43~160V)                                          | 3.3V<br>5V<br>12V<br>15V               |                   | 3KVDC                  | -40~+85°C             | 1.25"x 0.8"x 0.5"  |                                                                                                                                           |
|         |           |    | RDDW10    | 10W  | 72V, 96V, 110V<br>(43~160V)                                          | ±5V<br>±12V<br>±15V                    |                   | 3KVDC                  | -40~+85°C             | 1.25"x 0.8"x 0.5"  |                                                                                                                                           |
|         | 2"x1"     |    | RSDW20    | 20W  | 12V, 24V (9~36V)<br>24V, 48V (18~75V)<br>72V, 96V, 110V<br>(43~160V) | 3.3V<br>5V<br>12V<br>15V               |                   | 1.5/3KVDC<br>(By type) | -40~+85°C             | 2"x 1"x 0.4"       | UL/EAC/<br>CE/UKCA<br>                                 |
|         |           |    | RDDW20    | 20W  | 12V, 24V (9~36V)<br>24V, 48V (18~75V)<br>72V, 96V, 110V<br>(43~160V) | ±5V<br>±12V<br>±15V                    |                   | 1.5/3KVDC<br>(By type) | -40~+85°C             | 2"x 1"x 0.4"       |                                                                                                                                           |
|         |           |    | RSDW20UW  | 20W  | 12V, 24V, 48V<br>72V, 96V, 110V<br><b>(8.5~160V)</b>                 | 5V<br>12V<br>15V                       |                   | 3KVAC                  | -40~+90°C             | 2"x 1"x 0.4"       | UL/EAC/<br>CE/UKCA<br>                                 |
|         |           |    | RDDW20UW  | 20W  | 12V, 24V, 48V<br>72V, 96V, 110V<br><b>(8.5~160V)</b>                 | ±12V<br>±15V<br>±24V                   |                   | 3KVAC                  | -40~+90°C             | 2"x 1"x 0.4"       |                                                                                                                                           |
|         |           |  | RSDW40    | 40W  | 12V, 24V(9~36V)<br>24V, 48V(18~75V)<br>72V, 96V, 110V<br>(40~160V)   | 3.3V<br>5V<br>12V<br>15V<br>24V<br>48V |                   | 1.6/3KVDC<br>(By type) | -40~+90°C             | 2"x 1"x 0.41"      | EAC/CE/<br>UKCA/<br>UL<br>(RQB40W12<br>RQB60W12)<br> |
|         |           |  | RDDW40    | 40W  | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                                  | ±12V<br>±15V                           |                   | 1.6KVDC                | -40~+90°C             | 2"x 1"x 0.41"      |                                                                                                                                           |
|         |           |  | RSDW60    | 60W  | 12V, 24V(9~36V)<br>24V, 48V(18~75V)<br>72V, 96V, 110V<br>(40~160V)   | 3.3V<br>5V<br>12V<br>15V<br>24V<br>48V |                   | 1.6/3KVDC<br>(By type) | -40~+85°C             | 2"x 1"x 0.41"      |                                                                                                                                           |
|         |           |  | RDDW60    | 60W  | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                                  | ±12V<br>±15V                           |                   | 1.6KVDC                | -40~+85°C             | 2"x 1"x 0.41"      |                                                                                                                                           |
|         | 1/4 Brick |  | RQB40W12  | 40W  | 24V, 36V, 48V,<br>72V, 96V, 110V<br><b>(14~160V)</b>                 | 5V<br>12V<br>24V<br>48V<br>54V         |                   | 3KVDC                  | -40~+90°C             | 2.28"x 1.45"x 0.5" |                                                                                                                                           |
|         |           |  | RQB60W12  | 60W  | 24V, 36V, 48V,<br>72V, 96V, 110V<br><b>(14~160V)</b>                 | 5V<br>12V<br>24V<br>48V<br>54V         |                   | 3KVDC                  | -40~+90°C             | 2.28"x 1.45"x 0.5" |                                                                                                                                           |
|         |           |  | RQB150W12 | 150W | 24V, 36V, 48V,<br>72V, 96V, 110V<br><b>(14~160V)</b>                 | 12V<br>24V<br>48V<br>54V               |                   | 3KVDC                  | -40~+90°C             | 2.28"x 1.45"x 0.5" |                                                                                                                                           |
|         |           |  | RQB150W3  | 150W | 72V, 96V, 110V<br>(60~160V)                                          | 12V<br>24V<br>48V<br>54V               |                   | 3KVDC                  | -40~+90°C             | 2.28"x 1.45"x 0.5" |                                                                                                                                           |



# Selection Table of DC-DC Module Type



Selection Table of DC-DC Module

| Type                           | Package | Series                                                                              |           | Watt    | Vin                                                   | Vout                          | Output Regulation | Isolation voltage        | Operating tempratre                      | Dimension (LxWxH)   | Certi-<br>ficated         |  |
|--------------------------------|---------|-------------------------------------------------------------------------------------|-----------|---------|-------------------------------------------------------|-------------------------------|-------------------|--------------------------|------------------------------------------|---------------------|---------------------------|--|
|                                |         | Picture                                                                             | Model     |         |                                                       |                               |                   |                          |                                          |                     |                           |  |
| Telecom / Datacom / Industrial | SIP     |    | GD2       | 2W      | 12V(10.8~13.2V)<br>15V(13.5~16.5V)<br>24V(21.6~26.4V) | -3<br>-3.5<br>-5<br>-9<br>-15 | Unregulated       | 6.2KVDC<br>or<br>4.2KVAC | -40~+90°C                                | 19.5x9.8x12.5mm     | UL/EAC/<br>CE/UKCA        |  |
|                                | SIP     |    | N78-PV/PH | 3.3~15W | 12V(6~36V)                                            | 3.3V                          | Regulated         | NA<br>(non-isolated)     | -40~+85°C                                | 16x10.5x7.5mm       | EAC/CE/<br>UKCA           |  |
|                                |         |                                                                                     |           |         | 12V(8~36V)<br>12V(8~27V)                              | 5V<br>-5V                     |                   |                          |                                          |                     |                           |  |
|                                |         |                                                                                     |           |         | 24V(13~36V)                                           | 9V                            |                   |                          |                                          |                     |                           |  |
|                                |         |    | N78-C/CW  | 3.3~15W | 24V(16~36V)<br>12V(8~20V)                             | 12V<br>-12V                   |                   | NA<br>(non-isolated)     | -40~+85°C                                | 17.5x11.5x9mm       |                           |  |
|                                |         |                                                                                     |           |         | 24V(20~36V)<br>12V(8~18V)                             | 15V<br>-15V                   |                   |                          |                                          |                     |                           |  |
|                                | SMD     |    | SPOL-01   | 5.5W    | Nom. 12V<br>(3~14V)                                   | Nom.5V<br>(0.9~5.5V<br>可编程)   | Regulated         | NA<br>(non-isolated)     | -40~+82°C                                | 12.4x12.4x4mm       | EAC/CE/<br>UKCA           |  |
|                                |         |    | SPOL-12   | 66W     | Nom. 12V<br>(3~14V)                                   | Nom.5V<br>(0.6~5.5V<br>可编程)   |                   | NA<br>(non-isolated)     | -40~+90°C                                | 12.19x12.19x 3.1mm  |                           |  |
|                                |         |    | CAR01     | 1W      | 5V(4.5~5.5V)                                          | 5V                            | Unregulated       | 4KVDC                    | -40~+115°C                               | 0.55"x 0.42"x 0.22" | EAC/CE/<br>UKCA           |  |
|                                |         |   | SBTN01    | 1W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | 5V<br>9V<br>12V<br>15V        |                   | 1.5KVDC                  | -40~+90°C<br>(-40~+105 °C<br>optional)   | 0.5"x 0.43"x 0.28"  | CB/UL/<br>EAC/CE/<br>UKCA |  |
|                                |         |  | SBTN01-N  | 1W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | 5V<br>12V<br>15V              |                   | 2KVDC                    | -40~+100°C                               | 0.5"x 0.43"x 0.28"  |                           |  |
|                                |         |  | SFTN01    | 1W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | 5V<br>9V<br>12V<br>15V        |                   | 3KVDC                    | -40~+90°C<br>(-40~+105 °C<br>optional)   | 0.6"x 0.42"x 0.28"  | EAC/CE/<br>UKCA           |  |
|                                |         |  | SFTN01-N  | 1W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | 5V<br>9V<br>12V<br>15V        |                   | 3KVDC                    | -40~+100°C                               | 0.6"x 0.43"x 0.28"  | CB/UL/<br>EAC/CE/<br>UKCA |  |
|                                |         |  | DETN01    | 1W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | ±5V<br>±12V<br>±15V           |                   | 3KVDC                    | -40~+90°C<br>(-40~+105 °C<br>optional)   | 0.6"x 0.43"x 0.28"  |                           |  |
|                                |         |  | DETN01-N  | 1W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | ±5V<br>±12V<br>±15V           |                   | 3KVDC                    | -40~+100°C                               | 0.6"x 0.43"x 0.28"  | EAC/CE/<br>UKCA           |  |
|                                |         |  | SFTN02    | 2W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | 5V<br>12V<br>15V              |                   | 3KVDC                    | -40~+100°C                               | 0.6"x 0.43"x 0.28"  |                           |  |
|                                |         |  | SFTN02-N  | 2W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | 5V<br>12V<br>15V              |                   | 3KVDC                    | -40~+85°C                                | 0.6"x 0.43"x 0.36"  |                           |  |
|                                |         |  | DETN02    | 2W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | ±5V<br>±12V<br>±15V           |                   | 3KVDC                    | -40~+100°C<br>(-40~+105 °C<br>optional ) | 0.6"x 0.43"x 0.28"  |                           |  |
|                                |         |  | DETN02-N  | 2W      | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)    | ±5V<br>±12V<br>±15V           |                   | 3KVDC                    | -40~+85°C                                | 0.6"x 0.43"x 0.36"  |                           |  |



# Selection Table of DC-DC Module Type



| Type                           | Package | Series                                                                              |                    | Watt | Vin                                                                    | Vout                                  | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH)                                              | Certified           |
|--------------------------------|---------|-------------------------------------------------------------------------------------|--------------------|------|------------------------------------------------------------------------|---------------------------------------|-------------------|-------------------|-----------------------|----------------------------------------------------------------|---------------------|
|                                |         | Picture                                                                             | Model              |      |                                                                        |                                       |                   |                   |                       |                                                                |                     |
| Telecom / Datacom / Industrial | SIP     |    | SMU01-N <b>NEW</b> | 1W   | 3.3V(2.97~3.63V)<br>5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V) | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V | Unregulated       | 1.5KVDC           | -40~+105°C            | 0.46"x 0.24"x 0.4"                                             | EAC/CE/<br>UKCA     |
|                                |         |    | SMU02-N <b>NEW</b> | 2W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V |                   | 1.5KVDC           | -40~+105°C            | 0.46"x 0.3"x 0.4"                                              |                     |
|                                |         |    | SPU01              | 1W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | 5V<br>12V<br>15V                      |                   | 1.5KVDC           | -40~+90°C             | 5/12Vin:<br>0.77"x 0.24"x 0.4"<br>24Vin:<br>0.77"x 0.28"x 0.4" | EAC/CE/<br>UKCA     |
|                                |         |    | DPU01              | 1W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+90°C             | 5/12Vin:<br>0.77"x 0.24"x 0.4"<br>24Vin:<br>0.77"x 0.28"x 0.4" |                     |
|                                |         |    | SPUN02             | 2W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | 5V<br>12V<br>15V                      |                   | 3KVDC             | -40~+105°C            | 0.77"x 0.28"x 0.4"                                             |                     |
|                                |         |    | DPUN02             | 2W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+105°C            | 0.77"x 0.28"x 0.4"                                             |                     |
|                                |         |   | SPU03              | 3W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | 5V<br>12V<br>15V                      |                   | 3KVDC             | -40~+90°C             | 0.77"x 0.3"x 0.4"                                              | FCC/EAC/<br>CE/UKCA |
|                                |         |  | SPRN01             | 1W   | 5V(4.75~5.5V)<br>12V(11.4~13.2V)<br>24V(22.8~26.4V)<br>48V(45.6~52.8V) | 5V<br>12V<br>15V                      | Regulated         | 1.5KVDC           | -40~+90°C             | 0.77"x 0.28"x 0.4"                                             | EAC/CE/<br>UKCA     |
|                                |         |  | DPRN01             | 1W   | 5V(4.75~5.5V)<br>12V(11.4~13.2V)<br>24V(22.8~26.4V)<br>48V(45.6~52.8V) | ±12V<br>±15V                          |                   | 1.5KVDC           | -40~+90°C             | 0.77"x 0.28"x 0.4"                                             |                     |
|                                | DIP16   |  | SRS                | 0.5W | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)<br>48V(43.2~52.8V)  | 5V<br>9V<br>12V<br>15V                | Unregulated       | 1KVDC             | -25~+71°C             | 0.89"x 0.39"x 0.33"                                            | FCC/EAC/<br>CE/UKCA |
|                                |         |  | SUS01              | 1W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)<br>48V(43.2~52.8V)  | 5V<br>9V<br>12V<br>15V                |                   | 1KVDC             | -25~+71°C             | 0.89"x 0.39"x 0.33"                                            |                     |
|                                | DIP7    |  | SMA01              | 1W   | 5V(4.5~5.5V)<br>12V(10.8~13.2V)<br>24V(21.6~26.4V)                     | 5V<br>9V<br>12V<br>15V                |                   | 1KVDC             | -40~+90°C             | 0.5"x 0.4"x 0.28"                                              | EAC/CE/<br>UKCA     |
|                                | DIP16   |  | SLC03              | 3W   | 12V (9~18V)<br>24V (18~36V)<br>48V (36~75V)                            | 5V<br>12V<br>15V                      | Regulated         | 1.5KVDC           | -40~+85°C             | 0.87"x 0.54"x 0.34"                                            |                     |
|                                |         |  | DLC03              | 3W   | 12V (9~18V)<br>24V (18~36V)<br>48V (36~75V)                            | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+85°C             | 0.87"x 0.54"x 0.34"                                            |                     |

# Selection Table of DC-DC Module Type



| Type                           | Package | Series                                                                              |          | Watt | Vin                                                    | Vout                                  | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH)   | Certified       |
|--------------------------------|---------|-------------------------------------------------------------------------------------|----------|------|--------------------------------------------------------|---------------------------------------|-------------------|-------------------|-----------------------|---------------------|-----------------|
|                                |         | Picture                                                                             | Model    |      |                                                        |                                       |                   |                   |                       |                     |                 |
| Telecom / Datacom / Industrial | SIP     |    | SPA01    | 1W   | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V)               | 5V<br>12V<br>15V                      | Regulated         | 1.5KVDC           | -40~+90°C             | 0.69"x 0.3"x 0.44"  | EAC/CE/<br>UKCA |
|                                |         |    | SPA01W8  | 1W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V |                   | 1.5KVDC           | -40~+95°C             | 0.69"x 0.3"x 0.44"  |                 |
|                                |         |    | DPA01W8  | 1W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+95°C             | 0.69"x 0.3"x 0.44"  |                 |
|                                |         |    | SPAN02   | 2W   | 5V(4.5~9V)<br>12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+90°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |    | SPAN02W8 | 2W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | 3.3V<br>5V<br>12V<br>15V              |                   | 3KVDC             | -40~+95°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |    | DPAN02   | 2W   | 5V(4.5~9V)<br>12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+90°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |    | DPAN02W8 | 2W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+95°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |    | SPBW03   | 3W   | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                    | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | SPBW03W8 | 3W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | 3.3V<br>5V<br>12V<br>15V              |                   | 3KVDC             | -40~+90°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | DPBW03   | 3W   | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                    | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+85°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | DPBW03W8 | 3W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+90°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | SPBW06   | 6W   | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                    | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | SPBW06W8 | 6W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | 3.3V<br>5V<br>12V<br>15V              |                   | 3KVDC             | -40~+85°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | DPBW06   | 6W   | 12V, 24V(9~36V)<br>24V, 48V(18~75V)                    | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+85°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | DPBW06W8 | 6W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+85°C             | 0.86"x 0.36"x 0.44" |                 |
|                                |         |  | SPB09    | 9W   | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V)               | 3.3V<br>5V<br>12V<br>15V<br>24V       |                   | 1.5KVDC           | -40~+90°C             | 0.94"x 0.38"x 0.44" |                 |
|                                |         |  | SPB09W8  | 9W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V |                   | 1.5KVDC           | -40~+90°C             | 0.94"x 0.38"x 0.44" |                 |
|                                |         |  | DPB09    | 9W   | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V)               | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+90°C             | 0.94"x 0.38"x 0.44" |                 |
|                                |         |  | DPB09W8  | 9W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                      | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+90°C             | 0.94"x 0.38"x 0.44" |                 |

※ The performance of 9~75V input models are better than 9~18V, 18~36V, 36~75V models.

It is highly recommended to use SIP SPA/DPA01W8, SPAN/DPAN02W8, SPBW/DPBW03W8, SPBW/DPBW06W8, SPB/DPB09W8 Series for new projects.



Selection Table  
of DC-DC Module

# Selection Table of DC-DC Module Type

| Type                           | Package | Series                                                                              |          | Watt | Vin                                                        | Vout                           | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH)  | Certified       |
|--------------------------------|---------|-------------------------------------------------------------------------------------|----------|------|------------------------------------------------------------|--------------------------------|-------------------|-------------------|-----------------------|--------------------|-----------------|
|                                |         | Picture                                                                             | Model    |      |                                                            |                                |                   |                   |                       |                    |                 |
| Telecom / Datacom / Industrial | DIP24   |    | SCWN03   | 3W   | 5V (4.5~9V)<br>12V (9~18V)<br>24V (18~36V)<br>48V (36~72V) | 3.3V<br>5V<br>12V<br>15V       | Regulated         | 3KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.4"  | EAC/CE/<br>UKCA |
|                                |         |    | SCWN03W8 | 3W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | 3.3V<br>5V<br>12V<br>15V       |                   | 3KVDC             | -40~+95°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |    | DCWN03   | 3W   | 5V (4.5~9V)<br>12V (9~18V)<br>24V (18~36V)<br>48V (36~72V) | ±5V<br>±12V<br>±15V            |                   | 3KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |    | DCWN03W8 | 3W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | ±5V<br>±12V<br>±15V            |                   | 3KVDC             | -40~+95°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |    | SCWN06   | 6W   | 12V,(9~18V)<br>24V,(18~36V)<br>48V,(36~72V)                | 3.3V<br>5V<br>12V<br>15V       |                   | 3KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |    | SCWN06W8 | 6W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | 3.3V<br>5V<br>12V<br>15V       |                   | 3KVDC             | -40~+95°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |    | DCWN06   | 6W   | 12V,(9~18V)<br>24V,(18~36V)<br>48V,(36~72V)                | ±5V<br>±12V<br>±15V            |                   | 3KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |    | DCWN06W8 | 6W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | ±5V<br>±12V<br>±15V            |                   | 3KVDC             | -40~+95°C             | 1.25"x 0.8"x 0.4"  |                 |
|                                |         |  | SCW08    | 8W   | 12V (9~18V)<br>24V (18~36V)<br>48V (36~72V)                | 5V<br>12V<br>15V               |                   | 1KVDC             | -40~+71°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | SCW08W8  | 8W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | 3.3V<br>5V<br>9V<br>12V<br>15V |                   | 3KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | DCW08    | 8W   | 12V (9~18V)<br>24V (18~36V)<br>48V (36~72V)                | ±5V<br>±12V<br>±15V            |                   | 1KVDC             | -40~+71°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | DCW08W8  | 8W   | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | ±5V<br>±12V<br>±15V            |                   | 3KVDC             | -40~+90°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | SCW12    | 12W  | 12V (9~18V)<br>24V (18~36V)<br>48V (36~72V)                | 5V<br>12V<br>15V               |                   | 1.5KVDC           | -40~+71°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | SCW12W8  | 12W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | 3.3V<br>5V<br>9V<br>12V<br>15V |                   | 3KVDC             | -40~+85°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | DCW12    | 12W  | 12V (9~18V)<br>24V (18~36V)<br>48V (36~72V)                | ±5V<br>±12V<br>±15V            |                   | 1.5KVDC           | -40~+71°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | DCW12W8  | 12W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | ±5V<br>±12V<br>±15V            |                   | 3KVDC             | -40~+85°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | SCW20    | 20W  | 12V (9~18V)<br>24V (18~36V)<br>48V (36~75V)                | 5V<br>12V<br>15V               |                   | 1.5KVDC           | -40~+80°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | SCW20W8  | 20W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | 5V<br>12V<br>15V               |                   | 3KVDC             | -40~+80°C             | 1.25"x 0.8"x 0.48" |                 |
|                                |         |  | DCW20W8  | 20W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)                          | ±12V<br>±15V                   |                   | 3KVDC             | -40~+80°C             | 1.25"x 0.8"x 0.48" |                 |

※ The performance of 9~75V input models are better than 9~18V, 18~36V, 36~75V models.

It is highly recommended to use DIP24 SCWN/DCWN03W8, SCWN/DCWN06W8, SCW/DCW08W8, SCW/DCW12W8, SCW/DCW20W8 Series for new projects.



Selection Table  
of DC-DC Module

# Selection Table of DC-DC Module Type

| Type                           | Package | Series                                                                              |                             | Watt | Vin                                                        | Vout                                  | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH) | Certified       |
|--------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|------|------------------------------------------------------------|---------------------------------------|-------------------|-------------------|-----------------------|-------------------|-----------------|
|                                |         | Picture                                                                             | Model                       |      |                                                            |                                       |                   |                   |                       |                   |                 |
| Telecom / Datacom / Industrial | 1"x 1"  |    | SI06W8 <small>NEW</small>   | 6W   | 12V, 24V, 36V, 48V, 72V(9~75V)                             | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V | Regulated         | 3KVDC             | -40~+90°C             | 1"x 1"x 0.4"      | EAC/CE/<br>UKCA |
|                                |         |    | DI06W8 <small>NEW</small>   | 6W   | 12V, 24V, 36V, 48V, 72V(9~75V)                             | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+90°C             | 1"x 1"x 0.4"      |                 |
|                                |         |    | SKM10                       | 10W  | 5V (4.7~9V)<br>12V (9~18V)<br>24V (18~36V)<br>48V (36~75V) | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |    | SKM10W8 <small>NEW</small>  | 10W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | 3.3V<br>5V<br>12V<br>15V              |                   | 3KVDC             | -40~+90°C             | 1"x 1"x 0.4"      |                 |
|                                |         |    | DKM10                       | 10W  | 5V (4.7~9V)<br>12V (9~18V)<br>24V (18~36V)<br>48V (36~75V) | ±5V<br>±12V<br>±15V                   |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |    | DKM10W8 <small>NEW</small>  | 10W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+90°C             | 1"x 1"x 0.4"      |                 |
|                                |         |    | SKMW15                      | 15W  | 12V, 24V, (9~36V)<br>24V, 48V, (18~75V)                    | 3.3V<br>5V<br>12V<br>15V              |                   | 3KVDC             | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |   | SKMW15W8 <small>NEW</small> | 15W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | 3.3V<br>5V<br>12V<br>15V<br>24V       |                   | 3KVDC             | -40~+90°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | DKMW15                      | 15W  | 12V, 24V, (9~36V)<br>24V, 48V, (18~75V)                    | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | DKMW15W8 <small>NEW</small> | 15W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+90°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | SKMW20                      | 20W  | 12V, 24V (9~36V)<br>24V, 48V (18~75V)                      | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | SKMW20W8 <small>NEW</small> | 20W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | DKMW20                      | 20W  | 12V, 24V (9~36V)<br>24V, 48V (18~75V)                      | ±12V<br>±15V                          |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | DKMW20W8 <small>NEW</small> | 20W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | ±12V<br>±15V                          |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | SKMW30                      | 30W  | 12V, 24V (9~36V)<br>24V, 48V (18~75V)                      | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | SKMW30W8 <small>NEW</small> | 30W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | 3.3V<br>5V<br>12V<br>15V              |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | DKMW30                      | 30W  | 12V, 24V (9~36V)<br>24V, 48V (18~75V)                      | ±12V<br>±15V                          |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |
|                                |         |  | DKMW30W8 <small>NEW</small> | 30W  | 12V, 24V, 36V, 48V, 72V(9~75V)                             | ±12V<br>±15V                          |                   | 1.5KVDC           | -40~+85°C             | 1"x 1"x 0.4"      |                 |

※ The performance of 9~75V input models are better than 9~18V, 18~36V, 36~75V models.

It is highly recommended to use 1"x1" SKM/DKM10W8, SKMW/DKMW15W8, SKMW/DKMW20W8, SKMW/DKMW30W8 Series for new projects.

# Selection Table of DC-DC Module Type

| Type                           | Package | Series                                                                              |         | Watt | Vin                                      | Vout                                  | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH) | Certified           |
|--------------------------------|---------|-------------------------------------------------------------------------------------|---------|------|------------------------------------------|---------------------------------------|-------------------|-------------------|-----------------------|-------------------|---------------------|
|                                |         | Picture                                                                             | Model   |      |                                          |                                       |                   |                   |                       |                   |                     |
| Telecom / Datacom / Industrial | 2"x1"   |    | SLW05   | 5W   | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | 5V<br>9V<br>12V<br>15V                | Regulated         | 1KVDC             | -25~+71°C             | 2"x 1"x 0.44"     | FCC/EAC/<br>CE/UKCA |
|                                |         |    | DLW05   | 5W   | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | ±5V<br>±12V<br>±15V                   |                   | 1KVDC             | -25~+71°C             | 2"x 1"x 0.44"     |                     |
|                                |         |    | SKE10   | 10W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | 5V<br>12V<br>15V<br>24V               |                   | 1KVDC             | -25~+71°C             | 2"x 1"x 0.44"     |                     |
|                                |         |    | SKE10W8 | 10W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V |                   | 3KVDC             | -40~+95°C             | 2"x 1"x 0.44"     |                     |
|                                |         |    | DKE10   | 10W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | ±5V<br>±12V<br>±15V<br>±24V           |                   | 1KVDC             | -25~+71°C             | 2"x 1"x 0.44"     |                     |
|                                |         |    | DKE10W8 | 10W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+95°C             | 2"x 1"x 0.44"     |                     |
|                                |         |    | SKA15   | 15W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | 3.3V<br>5V<br>12V<br>15V              |                   | 1KVDC             | -40~+71°C             | 2"x 1"x 0.44"     |                     |
|                                |         |    | SKA15W8 | 15W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | 3.3V<br>5V<br>9V<br>12V<br>15V<br>24V |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |   | DKA15   | 15W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | ±5V<br>±12V<br>±15V                   | Regulated         | 1KVDC             | -40~+71°C             | 2"x 1"x 0.44"     | FCC/EAC/<br>CE/UKCA |
|                                |         |  | DKA15W8 | 15W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | ±5V<br>±12V<br>±15V                   |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | SKA20   | 20W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | 5V<br>12V<br>15V                      |                   | 1.5KVDC           | -40~+85°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | SKA20W8 | 20W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | 3.3V<br>5V<br>12V<br>15V<br>24V       |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | DKA20W8 | 20W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | ±12V<br>±15V                          |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | SKM30   | 30W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | 5V<br>12V<br>15V                      |                   | 1.5KVDC           | -40~+75°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | SKM30-N | 30W  | 12V, 24V(9~36V)<br>24V, 48V(18~75V)      | 5V<br>12V<br>15V                      |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | SKM30W8 | 30W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | 5V<br>12V<br>15V<br>24V               |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | DKM30W8 | 30W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | ±12V<br>±15V                          |                   | 3KVDC             | -40~+90°C             | 2"x 1"x 0.44"     |                     |
|                                |         |  | SKM50   | 50W  | 24V(18~36V)<br>48V(36~75V)               | 5V<br>12V<br>15V                      |                   | 1.5KVDC           | -40~+75°C             | 2"x 1"x 0.54"     |                     |
|                                |         |  | SKM50W8 | 50W  | 12V, 24V, 36V,<br>48V, 72V(9~75V)        | 3.3V<br>5V<br>12V<br>12V              |                   | 3KVDC             | -40~+75°C             | 2"x 1"x 0.54"     |                     |

※ The performance of 9~75V input models are better than 9~18V, 18~36V, 36~75V models.

It is highly recommended to use 2"x1" SKE/DKE10W8, SKA/DKA15W8, SKA/DKA20W8, SKM/DKM30W8, SKM50W8 Series for new projects.



Selection Table  
of DC-DC Module

# Selection Table of DC-DC Module Type

| Type                           | Package   | Series  |                   | Watt | Vin                                      | Vout                        | Output Regulation | Isolation voltage    | Operating temperature | Dimension (LxWxH) | Certified           |
|--------------------------------|-----------|---------|-------------------|------|------------------------------------------|-----------------------------|-------------------|----------------------|-----------------------|-------------------|---------------------|
|                                |           | Picture | Model             |      |                                          |                             |                   |                      |                       |                   |                     |
| Telecom / Datacom / Industrial | 2"x2"     |         | SKE15             | 15W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | 5V<br>12V<br>15V<br>24V     | Regulated         | 1KVDC                | -25 ~ +71°C           | 2"x2"x0.43"       | FCC/EAC/<br>CE/UKCA |
|                                |           |         | DKE15             | 15W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | ±5V<br>±12V<br>±15V<br>±24V |                   | 1KVDC                | -25 ~ +71°C           | 2"x2"x0.43"       |                     |
|                                |           |         | DKA30             | 30W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | ±5V<br>±12V<br>±15V         |                   | 1KVDC                | -40 ~ +85°C           | 2"x2"x0.82"       |                     |
|                                |           |         | TKA30             | 30W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~72V) | 5V/±12V<br>5V/±15V          |                   | 1KVDC                | -40 ~ +85°C           | 2"x2"x0.82"       |                     |
|                                |           |         | SKA40             | 40W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | 5V<br>12V<br>15V            |                   | 1.5KVDC              | -40 ~ +80°C           | 2"x2"x0.43"       |                     |
|                                |           |         | SKA60             | 60W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | 5V<br>12V<br>15V            |                   | 1.5KVDC              | -40 ~ +70°C           | 2"x2"x0.43"       |                     |
|                                | 1/2 Brick |         | MHB75             | 75W  | 12V(9~18V)<br>24V(18~36V)<br>48V(36~75V) | 5V<br>12V<br>24V            |                   | 1.5KVDC              | -40 ~ +100°C          | 2.28"x2.4"x0.5"   | UL/EAC/<br>CE/UKCA  |
|                                |           |         | MHB100            | 100W | 24V(18~36V)<br>48V(36~75V)               | 5V<br>12V<br>24V            |                   | 1.5KVDC              | -40 ~ +100°C          | 2.28"x2.4"x0.5"   |                     |
|                                |           |         | MHB150            | 150W | 48V(36~75V)                              | 5V<br>12V<br>24V            |                   | 1.5KVDC              | -40 ~ +100°C          | 2.28"x2.4"x0.5"   |                     |
| LED                            | NA        |         | LDD-300~700L      | NA   | 9~36V                                    | 2~32V                       | NA                | NA<br>(non-isolated) | -40 ~ +85°C           | 0.89"x0.39"x0.35" | FCC/EAC/<br>CE/UKCA |
|                                |           |         | LDD-300~700LW     |      | 9~36V                                    | 2~32V                       |                   |                      | -40 ~ +85°C           | 0.89"x0.39"x0.35" |                     |
|                                |           |         | LDD-300~700LS     |      | 9~32V                                    | 2~28V                       |                   |                      | -40 ~ +85°C           | 1"x0.4135"x0.366" |                     |
|                                |           |         | LDB-300~350L      |      | 9~36V                                    | 2~40V                       |                   |                      | -40 ~ +70°C           | 1.25"x0.8"x0.48"  |                     |
|                                |           |         | LDB-500L          |      | 9~36V                                    | 2~32V                       |                   |                      | -40 ~ +70°C           | 1.25"x0.8"x0.48"  |                     |
|                                |           |         | LDB-600L          |      | 9~36V                                    | 2~30V                       |                   |                      | -40 ~ +70°C           | 1.25"x0.8"x0.48"  |                     |
|                                |           |         | LDB-300~350LW     |      | 9~36V                                    | 2~40V                       |                   |                      | -40 ~ +70°C           | 1.25"x0.8"x0.48"  |                     |
|                                |           |         | LDB-500LW         |      | 9~36V                                    | 2~32V                       |                   |                      | -40 ~ +70°C           | 1.25"x0.8"x0.48"  |                     |
|                                |           |         | LDB-600LW         |      | 9~36V                                    | 2~30V                       |                   |                      | -40 ~ +70°C           | 1.25"x0.8"x0.48"  |                     |
|                                |           |         | LDDS-HW/HWB       |      | 12~56V                                   | 2~45V                       |                   |                      | -40 ~ +55°C           | 1.85"x0.47"x0.28" | EAC/CE/<br>UKCA     |
|                                |           |         | LDD-350~1050H-DA  |      | 6~50V                                    | 3~45V                       |                   |                      | -40 ~ +85°C           | 1.6"x0.93"x0.4"   |                     |
|                                |           |         | LDD-1400H-DA      |      | 6~40V                                    | 3~36V                       |                   |                      | -40 ~ +85°C           | 1.6"x0.93"x0.4"   |                     |
|                                |           |         | LDD-350~1050H-WDA |      | 6~50V                                    | 3~45V                       |                   |                      | -40 ~ +85°C           | 1.6"x0.93"x0.4"   |                     |
|                                |           |         | LDD-1400H-WDA     |      | 6~40V                                    | 3~36V                       |                   |                      | -40 ~ +85°C           | 1.6"x0.93"x0.4"   |                     |
|                                |           |         | NLDD-350~1050H    |      | 10~56V                                   | 6~52V                       |                   |                      | -40 ~ +50°C           | 1.26"x0.8"x0.49"  |                     |
|                                |           |         | NLDD-1200~1400H   |      | 10~56V                                   | 6~46V                       |                   |                      | -40 ~ +50°C           | 1.26"x0.8"x0.49"  |                     |
|                                |           |         | NLDD-350~1050HW   |      | 10~56V                                   | 6~52V                       |                   |                      | -40 ~ +50°C           | 1.26"x0.8"x0.49"  |                     |
|                                |           |         | NLDD-1200~1400HW  |      | 10~56V                                   | 6~46V                       |                   |                      | -40 ~ +50°C           | 1.26"x0.8"x0.49"  |                     |
|                                |           |         | NHDD-40H/HW       |      | 360~420V                                 | 350V                        |                   |                      | -30 ~ +40°C           | 1.26"x0.8"x0.49"  |                     |

# VFD (Variable Frequency Drive)

150~750W



VFD-200C-230  
VFD-350C-230  
VFD-750C-230



VFD-250P-230  
VFD-350P-230  
(5"x3")



VFD-150P-48  
VFD-250P-48  
VFD-350P-48  
(4"x2")



Spec

## Features

- 90~264 VAC input, **built-in PFC function** (VFD-200C/350C/750C/250P/350P-230)
- 20~55 VDC input (VFD-150P/250P/350P-48)
- Driver efficiency up to 93%
- **Fanless design**
- High surge current **200%** up to 5 secs.
- Multi-Sensors: Current, DC Bus Voltage, Temperature
- **Suitable for driving BLDC brushless motors**, it can be used in HVAC systems, water pumps, air conditioners, medical treatment, AVG, home appliances, etc.
- -30~+70°C wide operating temperature
- Optional control card
- EN61800-5/3 certified
- 3 years warranty

## Models

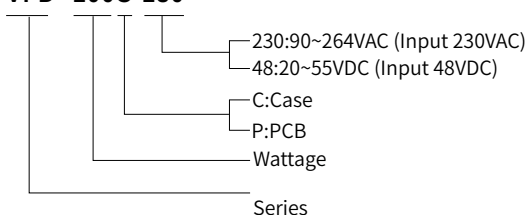


| Model No.      | VFD-200C-230                        | VFD-350C-230 | VFD-750C-230 |
|----------------|-------------------------------------|--------------|--------------|
| Appearance     | Metal Case                          |              |              |
| Vin            | 90~264VAC                           |              |              |
| Watt           | 200W                                | 300W         | 750W         |
| Vout           | 3 Phase UVW, line to line 0~240 VAC |              |              |
| Dimension (mm) | 146x55x26                           | 146x62x31    | 150x100x41   |

| Model No.      | VFD-250P-230                        | VFD-350P-230 | VFD-150P-48               | VFD-250P-48 | VFD-350P-48 |
|----------------|-------------------------------------|--------------|---------------------------|-------------|-------------|
| Appearance     | PCB On Board Type (5"x3")           |              | PCB On Board Type (4"x2") |             |             |
| Vin            | 90~264VAC                           |              |                           | 20~55VDC    |             |
| Watt           | 250W                                | 350W         | 150W                      | 250W        | 350W        |
| Vout           | 3 Phase UVW, line to line 0~240 VAC |              |                           |             |             |
| Dimension (mm) | 127x76.2x35                         |              | 101.6x50.8x25.6           |             |             |

## Model Encoding

### VFD- 200C-230







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