



Your Reliable Power Partner
Standard Switching Power Supply Manufacturer



■ Group Overview

Founded in 1982, MEAN WELL is one of the world's few manufacturers dedicated to standard power supply products. It is ranked the 5th in global power supply (DC output) market according to a report by Micro Technology Consultant released in April, 2025.

MEAN WELL has been working as a "reliable partner" with customers, suppliers, contractors, and employees to build long lasting mutual trust relationships based on the spirit of "good intentions." The product lines include AC/DC power supplies, LED drivers, AC/DC battery chargers, DC/DC converters, DC/AC inverters. We have over 10,000 standard models widely used in medical, automation, communication, LED lighting, moving sign, and office automation fields.

1982

- Established MEAN WELL ENTERPRISES CO., LTD.

1997

- Set up POWERNEX ELECTRONICS CO., LTD.

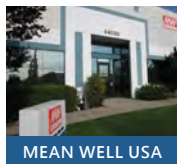


1993

- Established China factory in Guangzhou city

1999

- Established "MEAN WELL USA INC." in Fremont, C A



2002

- Taiwan headquarter moved to HQ Building in Wugu Dist., New Taipei City



2006

- Established "MEAN WELL EUROPE B.V." in The Netherlands
- Established the second China factory in Suzhou city



2018

- Combined revenue exceeded one billion USD
- Established MEAN WELL INTERNATIONAL CO., LTD, Korea office
- Established MEAN WELL ASEAN Regional Office
- Set up Guangzhou Share Well Co., LTD.

2016

- Established Huadu factory in Guangzhou city



2017

- Established USA Eastern sales office

MEAN WELL Virtual Expo



2020

- Set up Suzhou SHAER WELL Technology CO., LTD.
- Established "MEAN WELL Welfare Foundation-Community Service Base" in the starting office

2022

- SDG Take-off year
- SDG Group(MEAN WELL/ PowerNex / SHARE WELL) aims to establish ESG companies.
- Established SUZHOU SHARE WELL AUTOMATION TECHNOLOGY CO., LTD.
- Established SUZHOU SHARE WELL SMD TECHNOLOGY CO., LTD.
- Established MEAN WELL MALAYSIA SDN. BHD.
- Established SUZHOU SHARE WELL MAGNETIC TECHNOLOGY CO., LTD.
- Established SUZHOU CHENG WELL PRECISION TECHNOLOGY CO., LTD.
- Established PowerNex MANAGEMENT CONSULTING CO., LTD.
- Established PowerNex PRECISION TECHNOLOGY CO., LTD.
- Established SUZHOU SHARE WELL PRECISION TECHNOLOGY CO., LTD



MEAN WELL SUZHOU SMART PARK

2024

- Established JIAXING SHARE WELL Electronic Technology CO., LTD.
- Established SUZHOU SHARE WELL Intelligent Technology CO., LTD.

2019

- Established a new warehouse in Kansas City, Missouri, USA
- Established MEAN WELL India in Bengaluru



MEAN WELL INDIA

2025

- Establishment of Dongguan SHARE WELL SMD Technology Co., Ltd.
- Establishment of SUZHOU XIN WELL SMD Technology Co., Ltd.
- Investment and holding in Pinxin Group
- Establishment of MEAN WELL New Jersey Office, USA
- Establishment of PowerNex Manufacturing Co., Ltd.

2023

- Established SUZHOU SHARE WELL CERTIFICATION CO., LTD.
- Established MEAN WELL Turkey Diş Ticaret A.Ş.
- Established MEAN WELL Power Solutions, INC.
- Established SHARE WELL Green Energy Technology

2021

- SDG Debut year
- With "Reliable Partners and Sustainable Development" spirits developing the SDG Group
- Set up MEAN WELL SINGAPORE PTE . LTD.



■ Competitiveness



Product

Up to 15,000 models with adding 10% new products and phasing out 5% old products every year.



Quality

High reliability with a 10% improvement in quality indicators.



Cost

- High Operational Efficiency & Low Failure Cost
- Integrate and standardize materials to increase procurement volume and reduce costs



Delivery

- 24 hours delivery for 95% of standard products (overseas delivery in 48 hours).
- 28~35 days of lead-time for large quantity.



Service

24-hour fast customer service and technical support.



Reliable Relationship

Over 75% of total sales revenue comes from customers who have partnered with MEAN WELL for more than 10 years.



■ Standard Power Supply Solution

2 Main Stream Product Lines



Enclosed Type

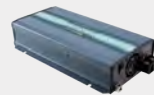


LED Driver

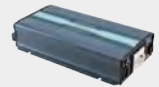
6 Niche Product Lines



DIN Rail Type



Battery Charger



DC/AC Inverter



On Board Type



Adaptor



DC/DC Converter

3 + N System Solutions



KNX Product



DALI-2 Controller



Monitoring & Control Module



19" Rack Power



Modular Power



System Power

VFD Variable Frequency Drive



Enclosed Type



PCB Type

INDEX

AC-DC Enclosed

Without PFC

| | | | |
|-----------------|---------------|-----------------|----|
| General Economy | Single Output | LRS-35~1200 | 01 |
| | | LRS-100N2~600N2 | 01 |
| | | SE-1500 | 01 |
| | Multi-Output | RS-15~150 | 02 |
| | | RD-35~125 | 02 |
| | | RID-50~125 | 02 |
| | | RT-50~125 | 03 |
| | | RQ-50~125 (RT) | 03 |

Built-in PFC

| | | | |
|-------------------------------|-----------------|---------------------|--------------|
| General | Single Output | RSP-75~500 | 04 |
| | | RSP-750~3000 | 05 |
| | | NSP-75~750 | 06 |
| | | NSP-1000~2400 | 07 |
| | | NSP-1600-3200 | 07 |
| | | DPU-3200/PHP-3500 | 08 |
| | | PSP-600/PSPA-1000 | 09 |
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| | | RST-5000~10000 | 12 |
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DIN Rail Type

| | | | | |
|-------------------|---------------------------|--------------|-------------------|----|
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AC-DC PCB Open Frame





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| | | RPT-60~160 | 37 | | |
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| | | | EPP-120S | 38 | |
| | | | LOP-200~600 | 39 | |
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| | | | LPP-100~150 | 40 | |
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 The Premium Series




 The Best Cost-Performance

NEW Product








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| | | |
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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 |
| | | | | | | | 48V, 0~4.4A | |
| 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 | | | |
| | 48V, 0~7.3A | | | | | | | |
| Dimension (mm) | 215x115x30 | 215x115x30 | | 225x124x35 | 225x124x41 | | 225x124x41 | 278x177.8x63.5 |



Spec

RS-150 RD/ID/T/Q-125 RS-100 RD/ID/T/Q-85 RS-75 RD/ID/T/Q-65 RS-50 RD/ID/T/Q-50 RS-35 RD-35 RS-25 RS-15

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)



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



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/in³(RSP-1600)
- Output voltage programmable, Widest up to 40~125%
- Constant current level lo 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 & remoteON/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, 0~15A | 5V, 0~20A | 5V, 0~30A | 5V, 0~40A |
| | 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 |
| Dimension (mm) | 99x97x30 | 99x97x30 | 129x97x30 | 159x97x30 |

| Model No. | NSP-320 | NSP-500 | NSP-750 |
|----------------|--------------|--------------|--------------|
| Vout / Iout | 5V, 0~60A | 5V, 0~90A | 5V, 0~100A |
| | 7.5V, 0~40A | 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 |
| 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



| 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 |



| 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 |



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



HRP Spec



HRPG 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 & no load <math><0.5\sim 0.75W</math>

HRP-N3 Series

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



HRP-150N3

HRP-300N3

HRP-600N3

HRPG-1000N3



Spec

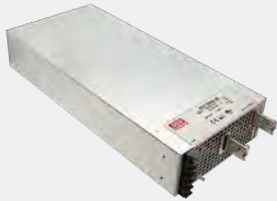
Features

- 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 |



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

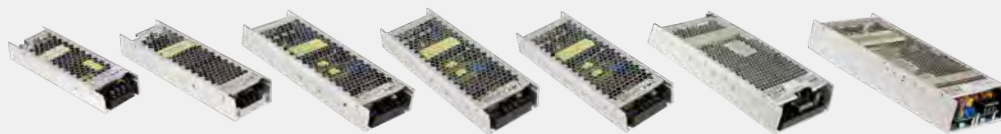
- Universal full range input: 90~264VAC
- Protections: Short circuit/Overload/Over voltage/Over temp. (Optional for QP-150)
- Forced air cooling by built-in DC fan
- Built-in active PFC function
- CH1 & 2 can be adjustable from -5%~+10% (QP-200/320)
- CH1 & 2 remote sense function (QP-200/320)
- With 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 3~15A | 5V 3~15A | 5V 3~15A | 5V 3~15A | 5V 3~15A | 5V 3~15A | 5V 3~15A | 5V 3~15A |
| | CH2 | 12V 0.4~5A | 15V 0.4~4A | 12V 0~5A | 15V 0~5A | 3.3V 0~15A | 3.3V 0~15A | 3.3V 0~15A | 3.3V 0~15A |
| | CH3 | -12V 0.3~2A | -15V 0.3~2A | 24V 0.4~3A | 24V 0.4~3A | 12V 0.4~5A | 12V 0.4~5A | 15V 0.4~5.0A | 24V 0.3~3A |
| | CH4 | -5V 0~1A | -5V 0~1A | -12V 0~1A | -15V 0~1A | -5V 0~1A | -12V 0~1A | -15V 0~1.0A | -12V 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



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)

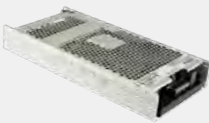
Models



| 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



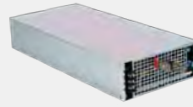
| Model No. | UHP-1500-HV | PHP-3500-HV | HEP-2300-HV | CSP-3000 |
|----------------|---------------|---------------|---------------|----------------|
| Vin | 90~264VAC | 90~264VAC | 90~305VAC | 180~264VAC |
| Vout / Iout | 115V, 0~13A | 115V, 0~25.2A | 115V, 0~20A | 120V, 0~25A |
| | 230V, 0~7A | 230V, 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/ Δ 196~305VAC or 3Ø4-wire/
Y 340~530VAC (RST)
- 3Ø 3-wire/ Δ 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



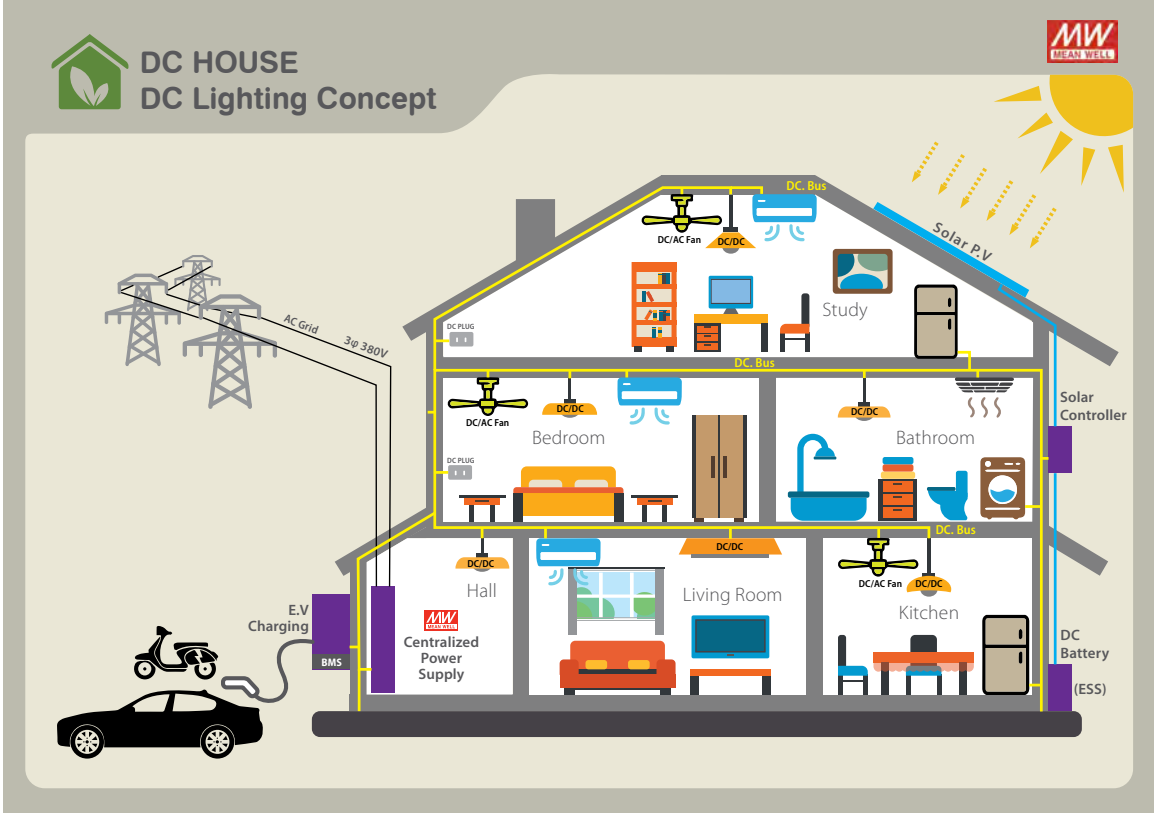
| Model No. | RST-7K5-HV | RST-15K-HV | SHP-10K-HV | SHP-30K-HV |
|-------------------|--|----------------------|---------------------------|--------------|
| Vin | 3Ø3W Y 196~305VAC or 3Ø4W Y 340~530VAC | 3Ø4W Y 340~530VAC | 3Ø3W/3Ø4W Y 340~530VAC | |
| Vout / Iout | 115V, 0~65A | 115V, 0~130A | 55V, 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 (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 (AC to DC Enclosed type) | Back-end (DC to DC LED driver) | Dimming function |
|----------------------------|---|---|--|
| Low Voltage bus (48V) | UHP-1500(1Ø3W) RST-5000/10000 (3Ø4W) SHP-10K-HV(3Ø3W) | NLDD-H series LDDS-HWB series LDD-H-DA series | <ul style="list-style-type: none"> · PWM · 0-10V · DALI |
| High Voltage bus (380V) | UHP-1500(1Ø3W) RST-7K5/15K (3Ø4W) SHP-10K-HV(3Ø3W) | NHDD series | <ul style="list-style-type: none"> · PWM · Dim with DAP-04 for DALI system |

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



NHDD-40



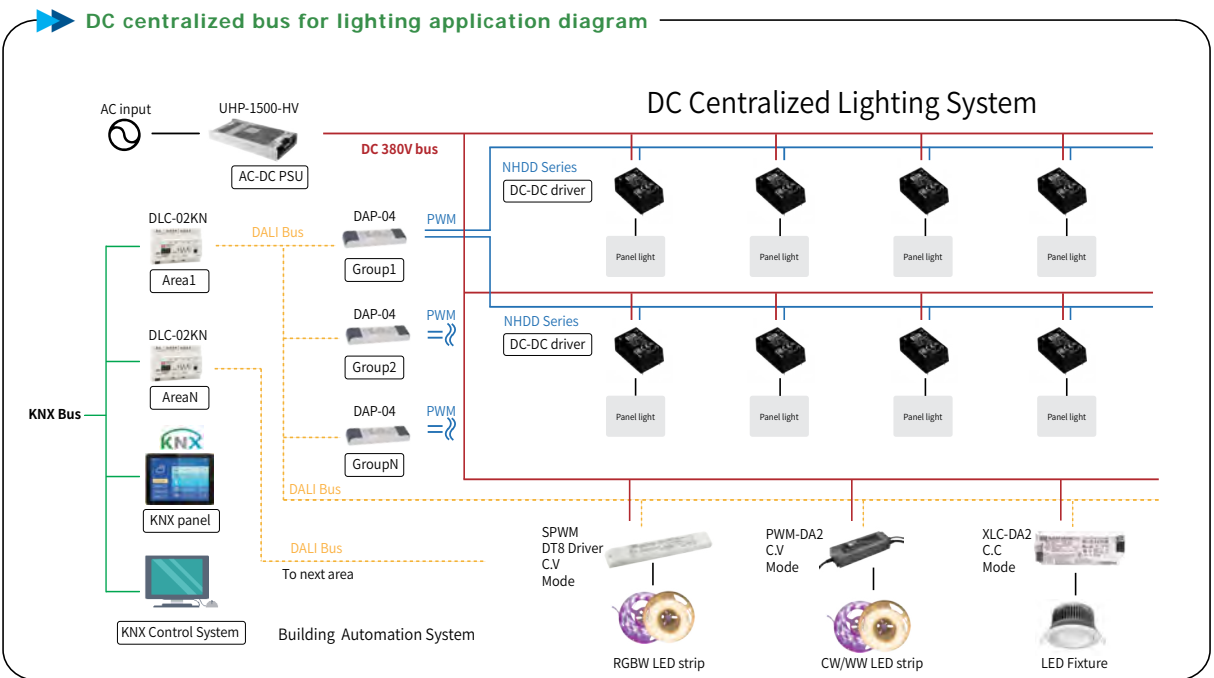
Spec

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 |





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 NEW | MSP-3200 COMING SOON |
|----------------|---------------------|-----------------------------|
| 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



HDR-15

HDR-30

HDR-60

HDR-100

HDR-150



Spec

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 <math>< 0.3W</math>
- 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



MDR-10

MDR-20

MDR-40

MDR-60

MDR-100



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, 115VAC:0~10A 230VAC:0~11A | 12V, 0~20A | 12V, 0~30A | 24V, 0~40A |
| | 24V, 0~3.2A | 24V, 0~5A | 24V, 115VAC:0~5.2A 230VAC:0~6.5A | 24V, 0~10A | 24V, 0~20A | 36V, 0~26.6A |
| | 36V, 0~2.1A | 36V, 0~3.33A | 36V, 115VAC:0~3.46A 230VAC:0~4.33A | 36V, 0~6.66A | 36V, 0~13.3A | 48V, 0~20A |
| | 48V, 0~1.6A | 48V, 0~2.5A | 48V, 115VAC:0~2.6A 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

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

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

75~960W High Performance DIN Rail Power SDR Series



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



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 $V_{in}-1VDC$
- Support parallel connection to extend buffering time
- $-25^{\circ}C \sim +75^{\circ}C$ 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



| 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 |



| 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

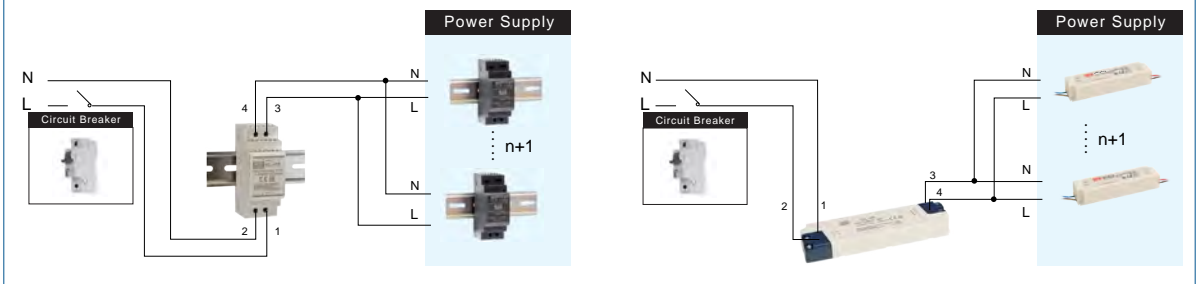
- ICL-16R/L: 23A inrush current limiting, **16A** continuous
- ICL-28R/L: 48A inrush current limiting, **28A** continuous
- 180~264VAC input
- Integrated bypass relay, no simple NTC
- Internal thermal protection
- DIN Rail: TS-35/7.5 or 15 (ICL-16R/28R)
- -30°C~+70°C wide operating temperature
- Over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

Models



| 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.

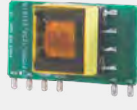
IOB Series

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

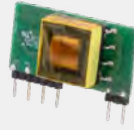
NEW



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 (1.03"x0.57"x0.43") | A : 44.5x25x15 (1.751"x0.984"x0.59") B : 44.5x25.5x15(1.751"x1.003"x0.59") C : 44.5x23x15.5 (1.751"x0.905"x0.61") |

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



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 $< 0.075\sim 0.1W$
- 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" | <p>EPS-25/35 EPS-45S/65S RPS-30/45/65</p> | <p>EPP-120S RPS-120S</p> | | | | |
| 4" x 2" | <p>EPS-45/65 RPS/D/T-60</p> | <p>EPP-100 EPS-120 RPS-120</p> | <p>EPP-150 EPP-200 RPS-200 LOP-200</p> | <p>LOP-300</p> | | |
| 5" x 3" | <p>RD/T-45/65 RPS/D/T-75</p> | <p>PPT-125 RPS/T-160</p> | <p>EPP-300 RPS-300</p> | <p>EPP-400 RPS-400 LOP-400</p> | <p>EPP-500 RPS-500 LOP-500</p> | <p>LOP-600</p> |

※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 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**



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 SMD: 33.7x22.2x16 | PCB: 37x24x15 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 Screw I/O: 91x39.5x28.5 | PCB mounting: 87x52x29.5 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 $< 0.1W \sim 0.75W$
- 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 (Convection/Peak 10 sec.) | RPS-45 (Convection/Peak 10 sec.) | RPS-65 (Convection/Peak 10 sec.) | RPS-120S (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 (Convection/Peak 10 sec.) | RPS-120-x□ (Convection/10CFM) | RPS-200-x□ (Convection/10CFM) | RPS-75 (Rated / 23.5CFM) | RPS-160 (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 Case:103.4x62x40 | PCB:101.6x50.8x29 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



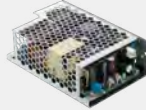
RPS-300
127x76.2x35mm
(5"x 3")



RPS-400
127x76.2x35mm
(5"x 3")



RPS-500
127x76.2x41mm
(5"x 3")



RPS-300-x-C
RPS-400-x-C
RPS-500-x-C
130x86x43mm



RPS-400-x-TF
RPS-500-x-TF
130x86x66.5mm



RPS-400-x-SF
RPS-500-x-SF
160x86x43mm



Spec

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○ (Convection / 20.5CFM) | RPS-400-x□ (Convection/25CFM) | RPS-500-x□ (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"x4.2")



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 <math><0.1W\sim0.75W</math>
- 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 <math><0.75W</math>

○=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 |



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 < 0.1~0.3W
- 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~+70°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~+85°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



| Model No. | 2.5"x 1.8" | | | 3"x 2" | |
|----------------|---------------|--------------|--------------|--------------|--------------|
| | 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 |

| Model No. | 4"x 2" | | 3"x 2" | |
|----------------|---------------------------------------|------------|---------------|---------------------------------------|
| | EPS-45-x□ | EPS-65-x□ | EPS-120 | EPP-120S (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

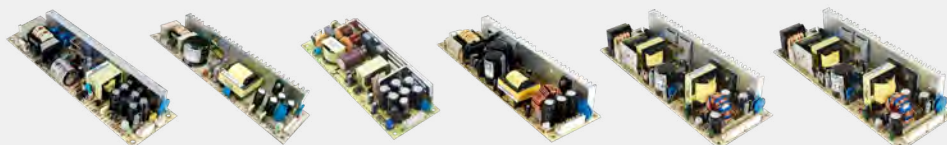


| 4''x 2'' | | |
|----------------|---|---|
| Model No. | LOP-200 (Convection/10.98 CFM/Peak 3 sec.) | LOP-300 (Convection/10.98 CFM/Peak 3 sec.) |
| Vout / Iout | 12V, 11.7A/16.7A/25A | 12V, 15A/25A/37.5A |
| | 15V, 9.4A/13.4A/20A | 15V, 12A/20A/30A |
| | 18V, 7.8A/11.1A/16.7A | 18V, 10A/16.7A/25A |
| | 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''x 3'' | | | |
|----------------|--|--|--|
| Model No. | LOP-400 (Convection/23 CFM/Peak 3 sec.) | LOP-500 (Convection/23 CFM/Peak 3 sec.) | LOP-600 (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 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 $-30\sim+70^{\circ}C$ 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)



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



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) U/E(Wall-mounted) | □=B(Desktop) U/E(Wall-mounted) | □=B(Desktop) 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)



I-Type



E-Type



U-Type

- NGE12
- NGE18
- NGE30
- NGE45
- NGE65
- NGE90



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 |
| 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- □ □ = P1J □ = USB | NGE12Exx- □ □ = P1J □ = USB | NGE12Uxx- □ □ = P1J □ = USB |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|
| AC plug | Interchangeable Type | | Non-Interchangeable Type |
| | | | |
| Certificate | | | |

100W High Reliable Universal 4-Port USB PD Type-C Fast Charger **NGE Series**



NGE100
(Universal Version)

NGE100U
(US Version)



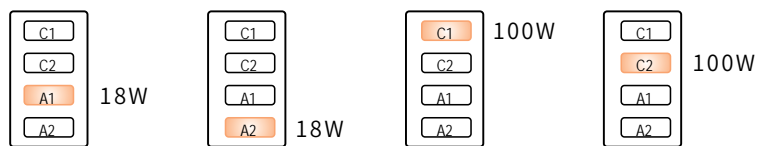
Features

- 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

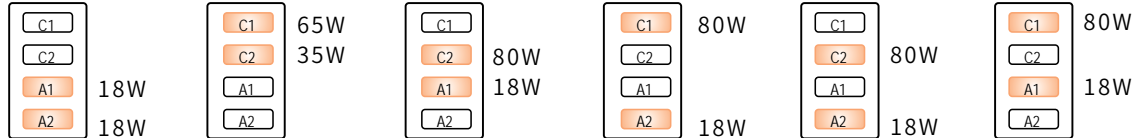


Recommended Configuration

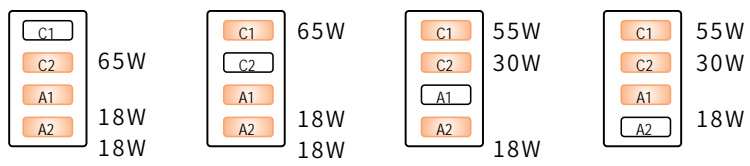
For 1 Port



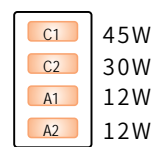
For 2 Ports



For 3 Ports



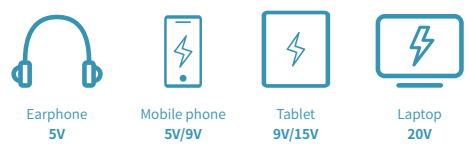
For 4 Ports



Interchangeable AC Plug Specifically for NGE 100 Series

| | | | | | | | |
|-------------|----------------------|----|----|----|----|----|--------------------------|
| Model NO. | NGE100 | | | | | | NGE100U |
| AC plug | Interchangeable Type | | | | | | Non-Interchangeable Type |
| | EU | US | UK | AU | CN | KR | IN |
| Certificate | | | | | | | |

Application



OWA Series

60~200W IP67 Moistureproof Industrial Grade Adaptor



| | 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**

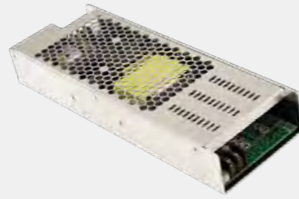
※ If you can't find the required DC plug in this table, please contact MEAN WELL's sales reps.

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

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

UMP Series

400W Configurable Modular Power



UMP-400
250x89x37 mm

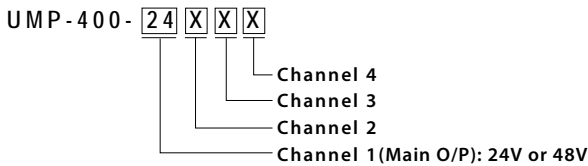


Spec

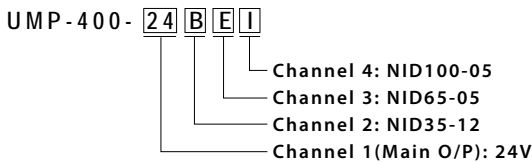
Features

- 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



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.)

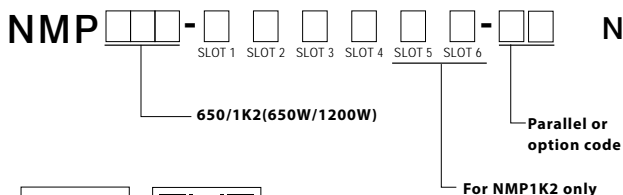
| Item Code | Vout / Iout | Vdc adj. |
|-----------|-------------|----------|
| C | 5V, 0~36A | 3~6V |
| E | 12V, 0~20A | 6~15V |
| H | 24V, 0~10A | 15~30V |
| K | 48V, 0~5A | 30~55V |

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

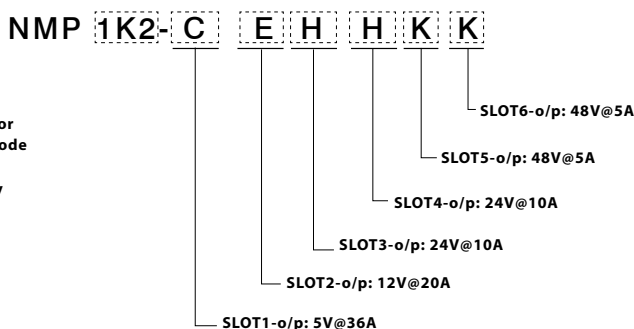
| Item Code | Vout / Iout | Vdc adj. |
|-----------|-------------|----------|
| D | 30V, 0~5A | 3~30V |
| | 30V, 0~5A | 3~30V |

| Parallel Connection Accessory | |
|--|--|
| FAP-009 (For NMS-240, 2 units) | |
| FAP-010 (For NMS-240, 3 units) | |
| NMS-240-P2/P3/P4/P5/P6 (to parallel NMS-240 in 2/3/4/5/6 modules) | |
| Series Connection Accessory | |
| FAS-005 (For 1-slot modules: NMS-240) | |
| Blank Plate Accessory | |
| Blank-NMS240 | |

Output Configuration Guide



Example:



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

■ 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, 0~5.A | 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 (For MS-300, 2 units) |  |
| FAP-002 (For MS-300, 3 units) |  |
| FAP-003 (For MS-210, 2 units) |  |
| FAP-004 (For MS-210, 3 units) |  |
| FAP-005 (For MS-210, 4 units) |  |
| FAP-006 (For MS-210, 5 units) |  |
| FAP-007 (For MS-360, 2 units) |  |
| FAP-008 (For MS-360, 3 units) |  |

Series Connection Accessory

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

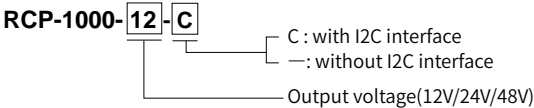


Features

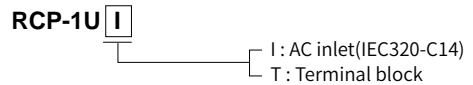
- Universal AC input/Full range: 90~264VAC
- Built-in active PFC function
- Built-in auxiliary power
- Protections: Short circuit/Overload/Over voltage/Over temp.
- Forced air cooling by built-in DC fan
- High power density up to 25W/inch³
- 1U low profile (41mm height)
- Output voltage and constant 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**
- I²C serial data bus selectable; Built-in PMBus serial communication
- AC OK and DC OK signal output
- 5 years warranty

Order Information

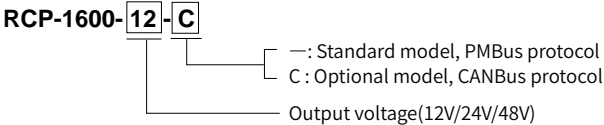
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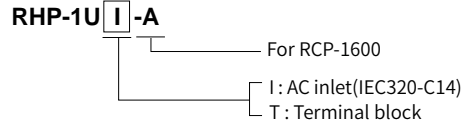
Rack Shelf:



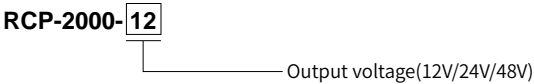
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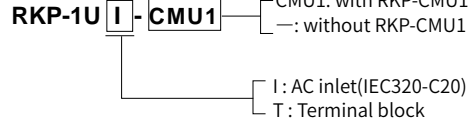
Rack Shelf:



Rectifier:



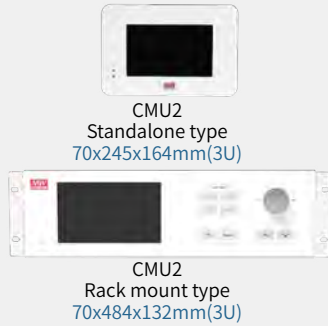
Rack Shelf:



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 RCP-1U:483.6x350.8x44 | 300x85x 41 RHP-1U:440x365x44 | 295x127x41 RKP-1U:483.6x350.8x44 |



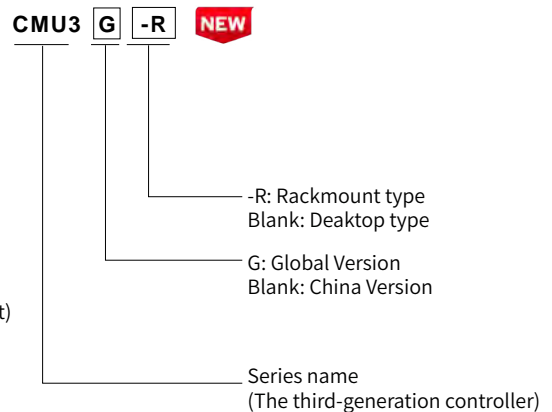
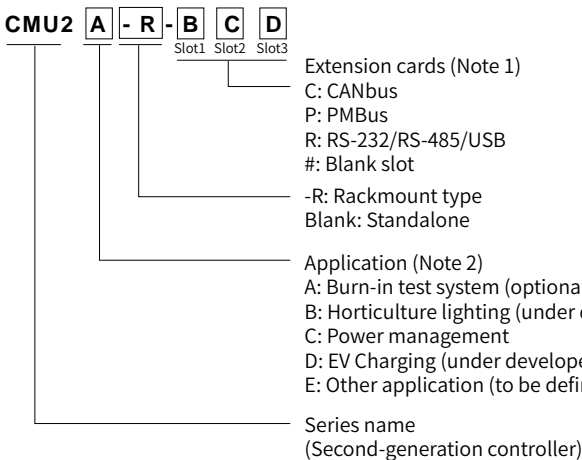
CMU2 Features

- 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



GC Series

30~326W Portable Green Charger



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 | |



Landing page

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



Spec

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) 12.5~25A | 14.4V(10.5~21V) 21.5~43A | 14.4V(10.5~21V) 35~70A | 14.4V(10.5~21V) 42.5~85A |
| | 28.8V(21~42V) 6.75~13.5A | 28.8V(21~42V) 11.25~22.5A | 28.8V(21~42V) 18~36A | 28.8V(21~42V) 25~50A |
| | 57.6V(42~80V) 3.4~6.8A | 57.6V(42~80V) 5.65~11.3A | 57.6V(42~80V) 9~18A | 57.6V(42~80V) 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 NPB-240 NPB-360 | Portable | Basic | Adj.by DIP S.W | Adj.by VR 14.4V:10.5~15.2V 28.8V:21~30.4V 57.6V:42~60.8V | Adj.by VR 50~100% | × | T.B Anderson XLR | × | 180x96x49 |
| NPB-450 NPB-750 NPB-1200 NPB-1700 | Screw Mounted | Intelligent | Adj.by DIP S.W or SBP-001 with laptop | Auto ranging or SBP-001 14.4V:10.5~21V 28.8V:21~42V 57.6V:42~80V 72V:54~100V (450W only) | | √ | T.B | √ | 205x130x55 230x158x67 250x158x67 300x184x70 |
| NPP-450 NPP-750 NPP-1200 NPP-1700 | | Advanced | 3-stage only | Adj.by VR 14.4V:10.5~21V 28.8V:21~42V 57.6V:42~80V 72V:54~100V (450W only) | | × | | 205x130x55 230x158x67 250x158x67 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

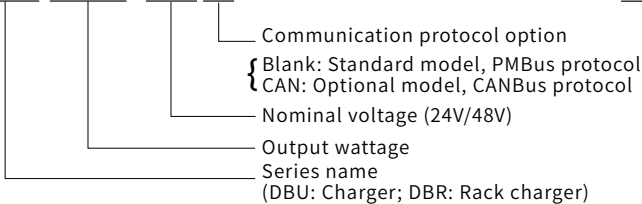
- Universal AC input/Full range: 90~264VAC
- 3 stage charging curves
- Withstand 300VAC surge input for 5 secs.
- Built-in **I²C interface**, **PMBus** protocol (CANBus protocol selectable)
- 1U low profile with(41 mm height)
- Rack mountable, sharing up to 8000W (RCB-1600)
- Active current sharing up to 4800W (RPB-1600)
- Vout and lout 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

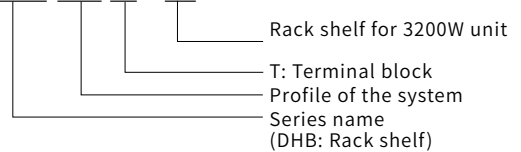
- Universal AC input/Full range: 90~264VAC
- Built-in default 3 stage charging curves and programmable curve, can be set via SBP-001(Detail refer to P.62)
- High efficiency up to 94.5%
- High power density **37W/in³**
- Forced air cooling by built-in DC fan
- **Vout and lout programmable**
- Built-in **OR-ing MOSFET**, support **hot swap**
- Active current sharing up to 6400W (DBU-3200)/ 12800W (NCP-3200)
- Built-in **I²C 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



DHP-1U T - A



Models



| Model No. | RPB-1600 | RCB-1600 | DBU-3200 | NCP-3200 |
|----------------|----------------|----------------|---------------|---|
| Vout / lout | 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 DHP-1UT:400x482.6x44 |



SBP-001
165x46x23 mm



Features

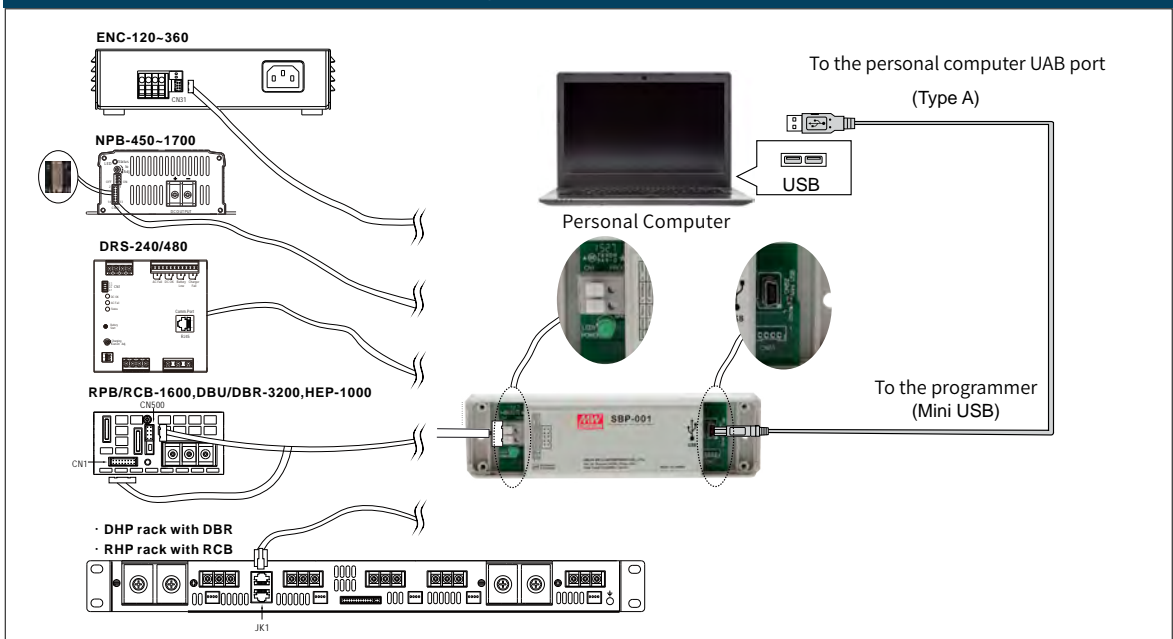
- Charging curve can be programmable when matching with MEAN WELL's Intelligent Battery Chargers
- Suitable for models:
ENC-120/240/360, NPB-450/750/1200/1700, DRS-240/480, HEP-1000, HEP-2300-55, RPB/RCB-1600, DBU/NCP-3200
- Simple connection and configuration
- No need of battery or AC power
- LED status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



■ 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

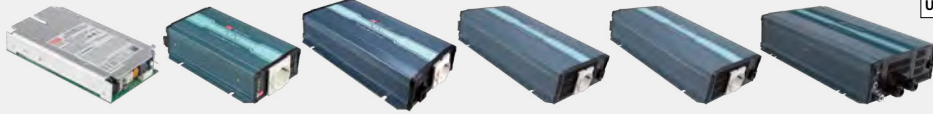
■ Models



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



Spec



| | | | | | |
|---|-------------------------------------|--------------------------|---------------------------|---------------------------|---------------------------------------|
| 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 |
|---|-------------------------------------|--------------------------|---------------------------|---------------------------|---------------------------------------|



Landing page

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

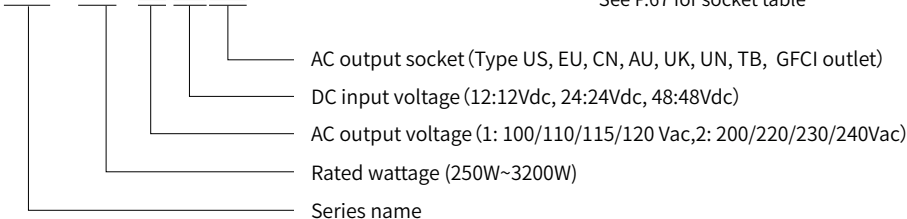
Models



| 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 20~33Vdc 40~66Vdc | 112, 124, 148 : 110Vac/60HZ 212, 224, 248 : 230Vac/50HZ 100/110/115/120Vac 200/220/230/240Vac (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

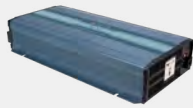


Model xxx = 112, 124, 148, 212, 224, 248
 AC output socket yy = US, UN, GFCI, TB (for 110 Vac models)
 = EU, UN, CN, AU, UK, TB (for 230 Vac models)
 See P.67 for socket table

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

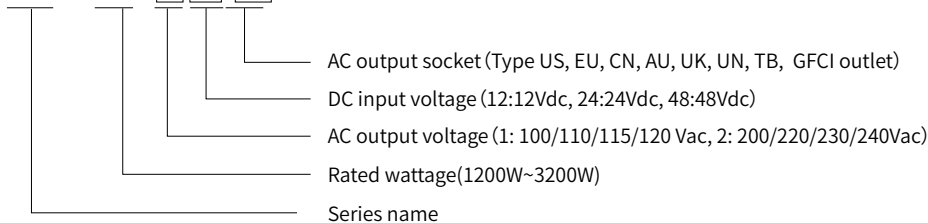


| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Built-in Fan | AC Bypass Function |
|---------------------|-----------------|----------------|------------------------------------|---|--------------|--------------------|
| External (Portable) | NTU-1200-xxxxxy | 1200W | 10~16.5Vdc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

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 Encoding

NTU - 1200 - 1 12 US



| MODEL | 100~120Vac model | | | | 200~240Vac model | | | | | |
|-------------|------------------|-----------|----------|-----------|------------------|----------|-----------|----------|-----------|-----------|
| Socket type | | | | | | | | | | |
| | 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



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

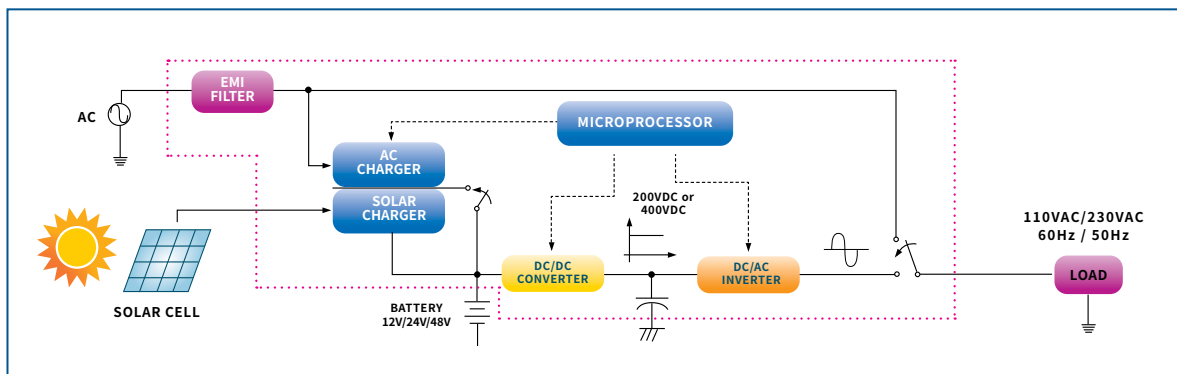


| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Built-in Fan | AC Bypass Function |
|---------------------|----------------|----------------|------------------------------------|---|--------------|--------------------|
| External (Portable) | TN-1500-xxxxxy | 1500W | 10.5~15Vdc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



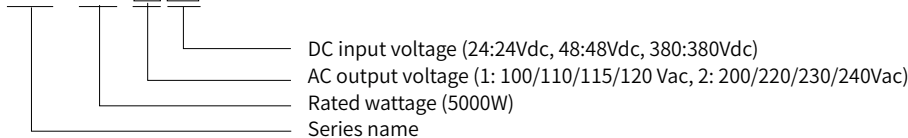
Models

| 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 40~66Vdc 280~430Vdc | 124, 148 : 110Vac/60HZ 224, 248, 2380 : 230Vac/50HZ 100/110/115/120Vac 200/220/230/240Vac <i>(4-stage output voltage can be adjusted through DIP S.W)</i> | ✓ | External | ✓ (<10ms) | ✓ (5+1 unit) |

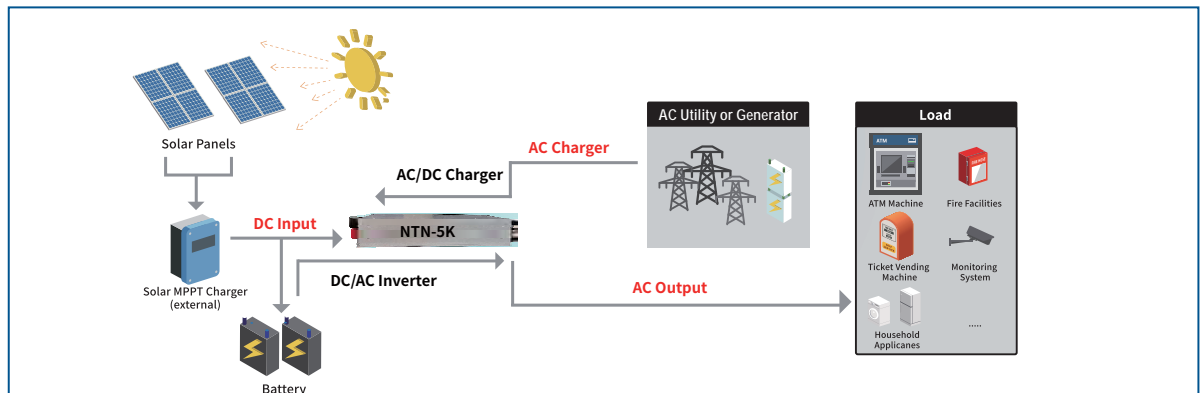
Model Encoding

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

NTN - 5K - 2 24



System Configuration





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



- 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



| Model No. | BIC-2200-xx□ | BIC-5K-xx○ NEW |
|----------------|--------------|----------------|
| 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

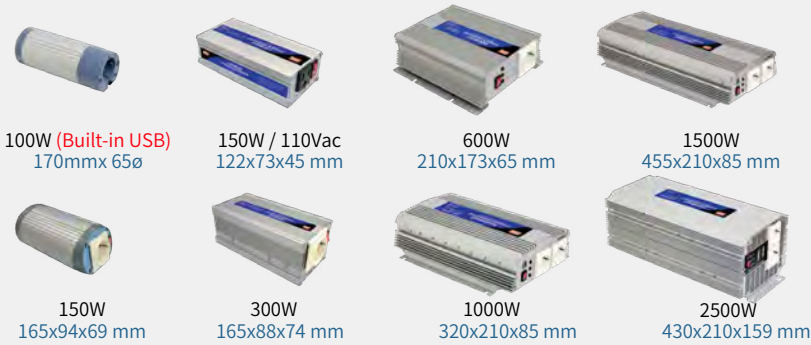


| Model No. | NTG-7K5-xx□ COMING SOON | NTG-20K-xx□ COMING SOON |
|----------------|-------------------------|-------------------------|
| Vout / Iout | 15V, 0~334A | 48V, 0~450A |
| | 24V, 0~312A | 96V, 0~225A |
| | 48V, 0~156A | 380V, 0~57A |
| | 96V, 0~78A | |
| | 380V, 0~19.8A | |
| Dimension (mm)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

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

A301/A302

100~2500W Modified Sine Wave DC-AC Inverter



Spec

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

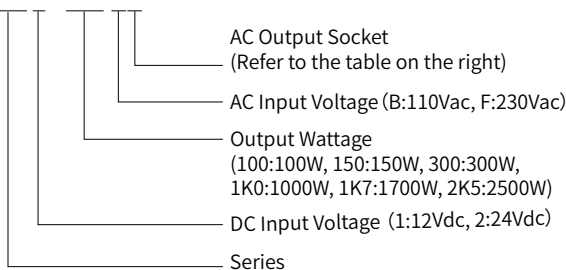


Models

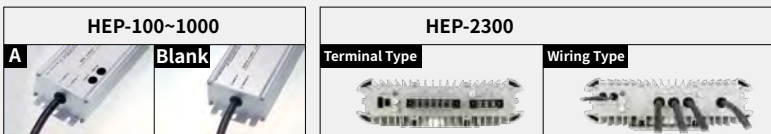
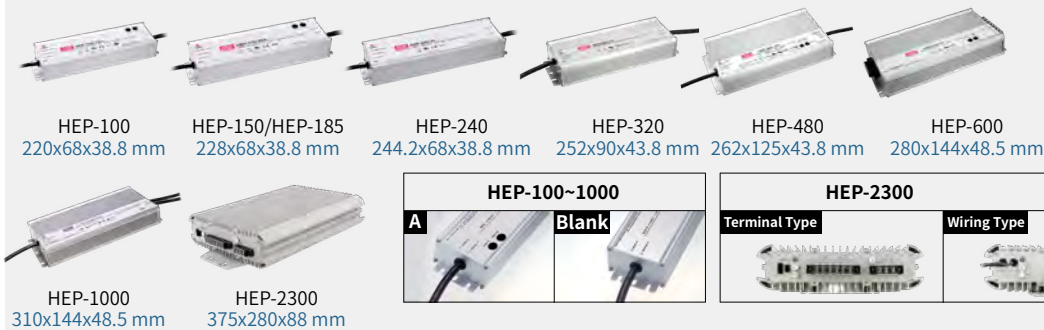
| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Built-in Fan |
|---------------------|--|----------------|--------------------------------|----------------------------------|--------------|
| External (Portable) | A301-100F3 A302-100F3 | 100W | A301:10~15Vdc A302:21~30Vdc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

Model Encoding

A301- 100 F3



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



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



| 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")



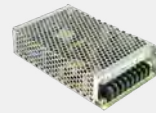
PSC-60
(4"x 2")



PSC-100
(5"x 3")



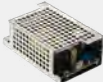
PSC-160
(6"x 3")



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



PSC-35x-C



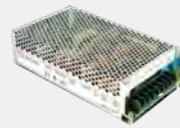
PSC-60x-C



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 ^U | LAD-360C ^U | LAD-360D ^U |
|-------------|----------------|-----------------------|-----------------------|-----------------------|
| 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 ^U | LAD-600C ^U | LAD-600D ^U |
|-------------|----------------|-----------------------|-----------------------|-----------------------|
| 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



| 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 50W 75W | | | | | | | | | | |
| | | AD | 55W 155W | ✓ | | | | | | | | | |
| Advance | Enclosed | LAD | 120W 240W 360W 600W | ✓ | | ✓ | ✓ (TTL) | ✓ (TTL) | | ✓ (buzzer optional) | 360/600w UART optional | GB17945 | |
| | | PSC | 35W 60W 100W 160W | ✓ | | ✓ | ✓ (RELAY) | ✓ (TTL) | | | | | |
| Premium | DIN-Rail (Quick Attach) | DRC | 40W 60W 100W 180W | ✓ | | ✓ | ✓ (RELAY) | ✓ (TTL) | | | | | |
| | | DRS | 240W 480W | ✓ | ✓ (20-100%) | ✓ | ✓ (RELAY) | ✓ (RELAY) | ✓ (RELAY) | ✓ (RELAY) | ✓ (MODBus) | ✓ (MODBus) | UL2524 EN54-4 GB17945 |



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

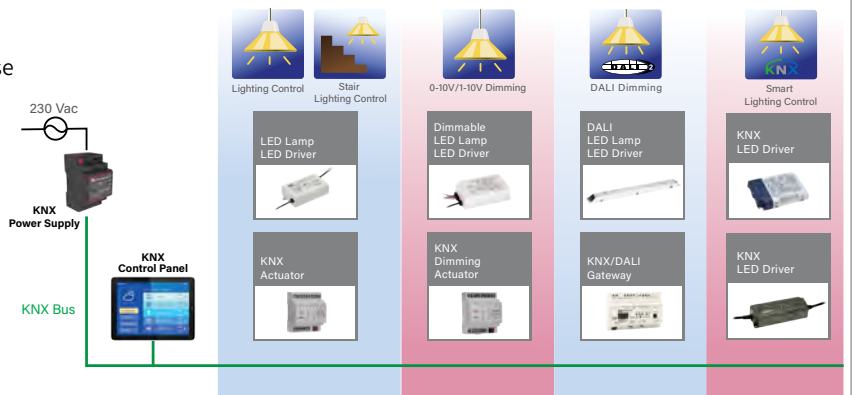
- EIB / KNX power supply with Integrated choke
- 180~264VAC Input
- No load power consumption < 0.5W
- Safety Extra Low Voltage (SELV)
- Isolation class I
- Over voltage category III
- LED indicator for normal operation, bus reset and bus overload
- Compact size
- Protections: Short circuit/Overload/Over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



+



+



1x
nr.



+



+



+



>2x
nr.

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



LSP-160
194x55x20mm

UHP-200A
167x55x26mm

ERP-200
200x120x40mm

ERP-350
220.4x130x48mm

ERPF-400
220.4x130x48mm



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

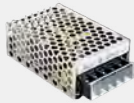


| Model No. | LSP-160□-xx○ | UHP-200A | ERP-200 | ERP-350 | ERPF-400 |
|-------------|--------------|-------------|--------------|--------------|--------------|
| Vin | 100~264VAC | 90~264VAC | 180~264VAC | 180~264VAC | 90~264VAC |
| Vout / Iout | 3.3V, 0~32A | 4.2V, 0~40A | 12V, 0~16.8A | 12V, 0~26.7A | 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
○ = T or W

Blank: Enclosed
T: For terminal block;

R: Current sharing function (3.3/4.2/5V)
W: For wafer connector (By Request)



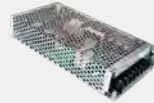
SD-15
78x51x28mm



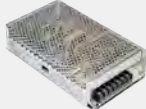
SD-25
99x97x36mm



SD-50
159x97x38mm



SD-100
199x98x38mm



SD-150
199x110x50mm



SD-200
215x115x50mm



SD-350
215x115x50mm



SD-500
215x115x50mm



SD-1000
295x127x41mm



Spec

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


[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 |
| | 48V, 0~2.1A | 48V, 0~2.1A | 48V, 0~2.1A | 48V, 0~3.15A | 48V, 0~3.15A | 48V, 0~3.15A |

| 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 |
| | 96V, 0~2.1A | 96V, 0~2.1A | 96V, 0~2.1A | 96V, 0~4.4A | 96V, 0~4.8A | 96V, 0~5.2A |

| 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 |



Spec

■ 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



| 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-15-ST
- DDRH-15-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 (>+50°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



| 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 ST : 122.3x57.3x32 DR : 122.3x57.3x43.5 | | P : 89x63.5x25 ST : 135x70x32 DR : 135x70x43.5 | | 57x93.5x105 | 63x125.2x115 |






















□=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) | Certificated | |
|---|-----------------------------|---|---|-----------|--|--------------------------|--------------------------|-------------------|-----------------------|-------------------|--|--|
| | | Picture | Model | | | | | | | | | |
| Medical | SIP |  | MDS01-N | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 3.3V 5V 12V 15V | Unregulated | 6KVDC | -40~+95°C | 0.77"x0.28"x0.45" | UL/CB/ EAC/CE/ UKCA  | |
| | |  | MDD01-N | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | 6KVDC | -40~+95°C | 0.77"x0.28"x0.45" | | |
| | |  | MDS02-N | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 3.3V 5V 12V 15V | | 6KVDC | -40~+95°C | 0.77"x0.28"x0.45" | | |
| | |  | MDD02-N | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | 6KVDC | -40~+95°C | 0.77"x0.28"x0.45" | | |
| | DIP24 |  | MDS03 | 3W | 12V, 48V(9~36V) 24V, 48V(18~75V) | 5V 12V 15V | Regulated | 6KVDC | -40~+90°C | 1.25"x0.8"x0.48" | EAC/CE/ UKCA  | |
| | |  | MDD03 | 3W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | 6KVDC | -40~+90°C | 1.25"x0.8"x0.48" | | |
| | |  | MDS06 | 6W | 12V, 24V(9~36V) 24V, 28V(18~75V) | 5V 12V 15V | | 6KVDC | -40~+90°C | 1.25"x0.8"x0.48" | | |
| | |  | MDD06 | 6W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | 6KVDC | -40~+90°C | 1.25"x0.8"x0.48" | | |
| | 2"x1" |  | MDS15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V 24V | Regulated | 4KVAC | -40~+90°C | 2"x1"x0.47" | EAC/CE/ UKCA  | |
| | |  | MDS20 | 20W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V 24V | | 4KVAC | -40~+90°C | 2"x1"x0.47" | | |
| | Photovoltaic/Energy Storage | DIP |  | DDRH-15-P | 15W | 150~1500V | 5V 12V 15V 24V | Regulated | 4KVAC | -40~+80°C | 3"x2"x1" | UL/EAC/ CE/UKCA   |
| | | |  | DDRH-30-P | 30W | 150~1500V | 12V 15V 24V 48V | | 4KVAC | -40~+80°C | 3.5"x2.5"x1" | |
|  | | | DDRH-45-P | 45W | 150~1500V | 12V 15V 24V | 4KVAC | | -40~+80°C | 3.5"x2.5"x1" | | |
|  | | | DDRH-15-TB | 15W | 150~1500V | 5V 12V 15V 24V | 4KVAC | | -40~+80°C | 4.81"x2.25"x1.22" | | |
|  | | | DDRH-30-TB | 30W | 150~1500V | 12V 15V 24V 48V | 4KVAC | | -40~+80°C | 5.31"x2.75"x1.22" | | |
|  | | | DDRH-45-TB | 45W | 150~1500V | 12V 15V 24V 48V | 4KVAC | | -40~+80°C | 5.31"x2.75"x1.22" | | |

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) | Certificated | | |
|---------|-----------|---|---|----------|--|--|-------------------|--|------------------------|--------------------|--|---|---|
| | | Picture | Model | | | | | | | | | | |
| Railway | DIP24 |  | RSDW08 | 8W | 12V, 24V (9~36V) 24V, 48V (18~75V) | 3.3V 5V 12V 15V | Regulated | 1.5KVDC | -40~+85°C | 1.25"x 0.8"x 0.4" | EAC/CE/ UKCA  | | |
| | |  | RDDW08 | 8W | 12V, 24V(9~36V) 24V, 48V (18~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+85°C | 1.25"x 0.8"x 0.4" | | | |
| | |  | RSDW10 | 10W | 72V, 96V, 110V (43~160V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+85°C | 1.25"x 0.8"x 0.5" | | | |
| | |  | RDDW10 | 10W | 72V, 96V, 110V (43~160V) | ±5V ±12V ±15V | | 3KVDC | -40~+85°C | 1.25"x 0.8"x 0.5" | | | |
| | 2"x1" | |  | RSDW20 | 20W | 12V, 24V (9~36V) 24V, 48V (18~75V) 72V, 96V, 110V (43~160V) | | 3.3V 5V 12V 15V | 1.5/3KVDC (By type) | -40~+85°C | 2"x 1"x 0.4" | UL/EAC/ CE/UKCA  | |
| | | |  | RDDW20 | 20W | 12V, 24V (9~36V) 24V, 48V (18~75V) 72V, 96V, 110V (43~160V) | | ±5V ±12V ±15V | 1.5/3KVDC (By type) | -40~+85°C | 2"x 1"x 0.4" | | |
| | | |  | RSDW20UW | 20W | 12V, 24V, 48V 72V, 96V, 110V (8.5~160V) | | 5V 12V 15V | 3KVAC | -40~+90°C | 2"x 1"x 0.4" | UL/EAC/ CE/UKCA  | |
| | | |  | RDDW20UW | 20W | 12V, 24V, 48V 72V, 96V, 110V (8.5~160V) | | ±12V ±15V ±24V | 3KVAC | -40~+90°C | 2"x 1"x 0.4" | | |
| | | |  | RSDW40 | 40W | 12V, 24V(9~36V) 24V, 48V(18~75V) 72V, 96V, 110V (40~160V) | | 3.3V 5V 12V 15V 24V 48V | 1.6/3KVDC (By type) | -40~+90°C | 2"x 1"x 0.41" | | EAC/CE/ UKCA/ UL (RQB40W12 RQB60W12)  |
| | | |  | RDDW40 | 40W | 12V, 24V(9~36V) 24V, 48V(18~75V) | | ±12V ±15V | 1.6KVDC | -40~+90°C | 2"x 1"x 0.41" | | |
| | | |  | RSDW60 | 60W | 12V, 24V(9~36V) 24V, 48V(18~75V) 72V, 96V, 110V (40~160V) | | 3.3V 5V 12V 15V 24V 48V | 1.6/3KVDC (By type) | -40~+85°C | 2"x 1"x 0.41" | | |
| | | |  | RDDW60 | 60W | 12V, 24V(9~36V) 24V, 48V(18~75V) | | ±12V ±15V | 1.6KVDC | -40~+85°C | 2"x 1"x 0.41" | | |
| | 1/4 Brick |  | RQB40W12 | 40W | 24V, 36V, 48V, 72V, 96V, 110V (14~160V) | 5V 12V 24V 48V 54V | | 3KVDC | -40~+90°C | 2.28"x 1.45"x 0.5" | | | |
| | |  | RQB60W12 | 60W | 24V, 36V, 48V, 72V, 96V, 110V (14~160V) | 5V 12V 24V 48V 54V | | 3KVDC | -40~+90°C | 2.28"x 1.45"x 0.5" | | | |
| | |  | RQB150W12 | 150W | 24V, 36V, 48V, 72V, 96V, 110V (14~160V) | 12V 24V 48V 54V | | 3KVDC | -40~+90°C | 2.28"x 1.45"x 0.5" | | | |
| | |  | RQB150W3 | 150W | 72V, 96V, 110V (60~160V) | 12V 24V 48V 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 temperature | Dimension (LxWxH) | Certificated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|---|---|---|---|--|--|--------------------------|-----------------------|-------------------|--------------------|-------------------|-----------------|-------|---------------------------------------|------------------|---------------------------|-------|------------|------------------|-----------------|-------|---------------------------------------|------------------|-----------------|-------|------------|------------------|---------------------------|-------|---------------------------------------|------------------|-----------------|------------|------------------|-----------------|-------|------------|------------------|-----------------|-------|-----------|------------------|-----------------|-------|--|------------------|-----------------|-------|-----------|------------------|-----------------|
| | | Picture | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Telecom / Datacom / Industrial | SIP |  | GD2 | 2W | 12V(10.8~13.2V) 15V(13.5~16.5V) 24V(21.6~26.4V) | -3 -3.5 -5 -9 -15 | Unregulated | 6.2KVDC or 4.2KVAC | -40~+90°C | 19.5x9.8x12.5mm | UL/EAC/ CE/UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SIP |  | N78-PV/PH | 3.3~15W | 12V(6~36V) | 3.3V | Regulated | NA (non-isolated) | -40~+85°C | 16x10.5x7.5mm | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 12V(8~36V) 12V(8~27V) | 5V -5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 24V(13~36V) | 9V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SIP |  | N78-C/CW | 3.3~15W | 24V(16~36V) 12V(8~20V) | 12V -12V | Regulated | NA (non-isolated) | -40~+85°C | 17.5x11.5x9mm | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 24V(20~36V) 12V(8~18V) | 15V -15V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Telecom / Datacom / Industrial | SMD |  | SPOL-01 | 5.5W | Nom. 12V (3~14V) | Nom.5V (0.9~5.5V 可编程) | Regulated | NA (non-isolated) | -40~+82°C | 12.4x12.4x4mm | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SPOL-12 | 66W | Nom. 12V (3~14V) | Nom.5V (0.6~5.5V 可编程) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SMD |  | NEW | CAR01 | 1W | 5V(4.5~5.5V) | 5V | Unregulated | 4KVDC | -40~+115°C | 0.55"x0.42"x0.22" | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  | SBTN01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 9V 12V 15V | | | | | | 3KVDC | -40~+90°C (-40~+105°C optional) | 0.5"x0.43"x0.28" | CB/UL/ EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  | SBTN01-N | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | | | | | | 3KVDC | -40~+100°C | 0.5"x0.43"x0.28" | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  | SFTN01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 9V 12V 15V | | | | | | | | | | | | | | 3KVDC | -40~+90°C (-40~+105°C optional) | 0.6"x0.42"x0.28" | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  | SFTN01-N | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 9V 12V 15V | | | | | | | | | | | | | | | | | | 3KVDC | -40~+100°C | 0.6"x0.43"x0.28" | CB/UL/ EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  | DETN01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | | | | | | | | | | | | | | | | | | | | | 3KVDC | -40~+90°C (-40~+105°C optional) | 0.6"x0.43"x0.28" | EAC/CE/ UKCA | | | | | | | | | | | | | | | | | | | |
|  | | | | DETN01-N | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | 3KVDC | | | | | | | | | | | | | | | | | | | | | | | | | | -40~+100°C | 0.6"x0.43"x0.28" | EAC/CE/ UKCA | | | | | | | | | | | | | | | | |
|  | | | | SFTN02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3KVDC | -40~+100°C | 0.6"x0.43"x0.28" | EAC/CE/ UKCA | | | | | | | | | | | | |
|  | | | | SFTN02-N | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3KVDC | -40~+85°C | 0.6"x0.43"x0.36" | EAC/CE/ UKCA | | | | | | | | |
|  | | | | DETN02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3KVDC | -40~+100°C (-40~+105°C optional) | 0.6"x0.43"x0.28" | EAC/CE/ UKCA | | | | |
|  | | | | DETN02-N | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3KVDC | -40~+85°C | 0.6"x0.43"x0.36" | EAC/CE/ UKCA |

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

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 | | | | | | | | |
| Telecom / Datacom / Industrial | SIP |  | SPA01 | 1W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 12V 15V | Regulated | 1.5KVDC | -40~+90°C | 0.69"x0.3"x0.44" | EAC/CE/ UKCA |
| | |  | SPA01W8 | 1W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 9V 12V 15V 24V | | 1.5KVDC | -40~+95°C | 0.69"x0.3"x0.44" | |
| | |  | DPA01W8 | 1W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+95°C | 0.69"x0.3"x0.44" | |
| | |  | SPAN02 | 2W | 5V(4.5~9V) 12V(9~18V) 24V(18~36V) 48V(36~75V) | 3.3V 5V 12V 15V | | 1.5KVDC | -40~+90°C | 0.86"x0.36"x0.44" | |
| | |  | SPAN02W8 | 2W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+95°C | 0.86"x0.36"x0.44" | |
| | |  | DPAN02 | 2W | 5V(4.5~9V) 12V(9~18V) 24V(18~36V) 48V(36~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+90°C | 0.86"x0.36"x0.44" | |
| | |  | DPAN02W8 | 2W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+95°C | 0.86"x0.36"x0.44" | |
| | |  | SPBW03 | 3W | 12V, 24V(9~36V) 24V, 48V(18~75V) | 3.3V 5V 12V 15V | | 1.5KVDC | -40~+85°C | 0.86"x0.36"x0.44" | |
| | |  | SPBW03W8 | 3W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+90°C | 0.86"x0.36"x0.44" | |
| | |  | DPBW03 | 3W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+85°C | 0.86"x0.36"x0.44" | |
| | |  | DPBW03W8 | 3W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 0.86"x0.36"x0.44" | |
| | |  | SPBW06 | 6W | 12V, 24V(9~36V) 24V, 48V(18~75V) | 3.3V 5V 12V 15V | | 1.5KVDC | -40~+85°C | 0.86"x0.36"x0.44" | |
| | |  | SPBW06W8 | 6W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+85°C | 0.86"x0.36"x0.44" | |
| | |  | DPBW06 | 6W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+85°C | 0.86"x0.36"x0.44" | |
| | |  | DPBW06W8 | 6W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+85°C | 0.86"x0.36"x0.44" | |
| | |  | SPB09 | 9W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 3.3V 5V 12V 15V 24V | | 1.5KVDC | -40~+90°C | 0.94"x0.38"x0.44" | |
| | |  | SPB09W8 | 9W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 9V 12V 15V 24V | | 1.5KVDC | -40~+90°C | 0.94"x0.38"x0.44" | |
| | |  | DPB09 | 9W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+90°C | 0.94"x0.38"x0.44" | |
| | DPB09W8 | 9W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | 1.5KVDC | -40~+90°C | 0.94"x0.38"x0.44" | | | | |




















※ 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) 12V (9~18V) 24V (18~36V) 48V (36~72V) | 3.3V 5V 12V 15V | Regulated | 3KVDC | -40~+90°C | 1.25"x 0.8"x 0.4" | EAC/CE/ UKCA |
| | |  | SCWN03W8 | 3W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+95°C | 1.25"x 0.8"x 0.4" | |
| | |  | DCWN03 | 3W | 5V (4.5~9V) 12V (9~18V) 24V (18~36V) 48V (36~72V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 1.25"x 0.8"x 0.4" | |
| | |  | DCWN03W8 | 3W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+95°C | 1.25"x 0.8"x 0.4" | |
| | |  | SCWN06 | 6W | 12V,(9~18V) 24V,(18~36V) 48V,(36~72V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+90°C | 1.25"x 0.8"x 0.4" | |
| | |  | SCWN06W8 | 6W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+95°C | 1.25"x 0.8"x 0.4" | |
| | |  | DCWN06 | 6W | 12V,(9~18V) 24V,(18~36V) 48V,(36~72V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 1.25"x 0.8"x 0.4" | |
| | |  | DCWN06W8 | 6W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+95°C | 1.25"x 0.8"x 0.4" | |
| | |  | SCW08 | 8W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | 5V 12V 15V | | 1KVDC | -40~+71°C | 1.25"x 0.8"x 0.48" | |
| | |  | SCW08W8 | 8W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 9V 12V 15V | | 3KVDC | -40~+90°C | 1.25"x 0.8"x 0.48" | |
| | |  | DCW08 | 8W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | ±5V ±12V ±15V | | 1KVDC | -40~+71°C | 1.25"x 0.8"x 0.48" | |
| | |  | DCW08W8 | 8W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 1.25"x 0.8"x 0.48" | |
| | |  | SCW12 | 12W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | 5V 12V 15V | | 1.5KVDC | -40~+71°C | 1.25"x 0.8"x 0.48" | |
| | |  | SCW12W8 | 12W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 9V 12V 15V | | 3KVDC | -40~+85°C | 1.25"x 0.8"x 0.48" | |
| | |  | DCW12 | 12W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+71°C | 1.25"x 0.8"x 0.48" | |
| | |  | DCW12W8 | 12W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+85°C | 1.25"x 0.8"x 0.48" | |
| | |  | SCW20 | 20W | 12V (9~18V) 24V (18~36V) 48V (36~75V) | 5V 12V 15V | | 1.5KVDC | -40~+80°C | 1.25"x 0.8"x 0.48" | |
| | |  | SCW20W8 | 20W | 12V, 24V, 36V, 48V, 72V(9~75V) | 5V 12V 15V | | 3KVDC | -40~+80°C | 1.25"x 0.8"x 0.48" | |
|  | DCW20W8 | 20W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±12V ±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 5V 9V 12V 15V 24V | Regulated | 3KVDC | -40~+90°C | 1"x 1"x 0.4" | EAC/CE/ UKCA |
| | |  | DI06W8 <small>NEW</small> | 6W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | | | | |
| | |  | SKM10 | 10W | 5V (4.7~9V) 12V (9~18V) 24V (18~36V) 48V (36~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | SKM10W8 <small>NEW</small> | 10W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | DKM10 | 10W | 5V (4.7~9V) 12V (9~18V) 24V (18~36V) 48V (36~75V) | ±5V ±12V ±15V | | | | | |
| | |  | DKM10W8 <small>NEW</small> | 10W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | | | | |
| | |  | SKMW15 | 15W | 12V, 24V, (9~36V) 24V, 48V, (18~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | SKMW15W8 <small>NEW</small> | 15W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V 24V | | | | | |
| | |  | DKMW15 | 15W | 12V, 24V, (9~36V) 24V, 48V, (18~75V) | ±5V ±12V ±15V | | | | | |
| | |  | DKMW15W8 <small>NEW</small> | 15W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | | | | |
| | |  | SKMW20 | 20W | 12V, 24V (9~36V) 24V, 48V (18~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | SKMW20W8 <small>NEW</small> | 20W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | DKMW20 | 20W | 12V, 24V (9~36V) 24V, 48V (18~75V) | ±12V ±15V | | | | | |
| | |  | DKMW20W8 <small>NEW</small> | 20W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±12V ±15V | | | | | |
| | |  | SKMW30 | 30W | 12V, 24V (9~36V) 24V, 48V (18~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | SKMW30W8 <small>NEW</small> | 30W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | DKMW30 | 30W | 12V, 24V (9~36V) 24V, 48V (18~75V) | ±12V ±15V | | | | | |
| | |  | DKMW30W8 <small>NEW</small> | 30W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±12V ±15V | | | | | |

※ 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) 24V(18~36V) 48V(36~72V) | 5V 9V 12V 15V | Regulated | 1KVDC | -25~+71°C | 2"x 1"x 0.44" | FCC/EAC/ CE/UKCA |
| | |  | DLW05 | 5W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V | | 1KVDC | -25~+71°C | 2"x 1"x 0.44" | |
| | |  | SKE10 | 10W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 12V 15V 24V | | 1KVDC | -25~+71°C | 2"x 1"x 0.44" | |
| | |  | SKE10W8 | 10W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 9V 12V 15V 24V | | 3KVDC | -40~+95°C | 2"x 1"x 0.44" | |
| | |  | DKE10 | 10W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V ±24V | | 1KVDC | -25~+71°C | 2"x 1"x 0.44" | |
| | |  | DKE10W8 | 10W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+95°C | 2"x 1"x 0.44" | |
| | |  | SKA15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 3.3V 5V 12V 15V | | 1KVDC | -40~+71°C | 2"x 1"x 0.44" | |
| | |  | SKA15W8 | 15W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 9V 12V 15V 24V | | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | |
| | |  | DKA15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V | | 1KVDC | -40~+71°C | 2"x 1"x 0.44" | |
| | |  | DKA15W8 | 15W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | |
| | |  | SKA20 | 20W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | 1.5KVDC | -40~+85°C | 2"x 1"x 0.44" | | |
| | |  | SKA20W8 | 20W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 15V 24V | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | | |
| | |  | DKA20W8 | 20W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±12V ±15V | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | | |
| | |  | SKM30 | 30W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | 1.5KVDC | -40~+75°C | 2"x 1"x 0.44" | FCC/EAC/ CE/UKCA | |
| | |  | SKM30-N | 30W | 12V, 24V(9~36V) 24V, 48V(18~75V) | 5V 12V 15V | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | | |
| | |  | SKM30W8 | 30W | 12V, 24V, 36V, 48V, 72V(9~75V) | 5V 12V 15V 24V | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | | |
| | |  | DKM30W8 | 30W | 12V, 24V, 36V, 48V, 72V(9~75V) | ±12V ±15V | 3KVDC | -40~+90°C | 2"x 1"x 0.44" | | |
| | |  | SKM50 | 50W | 24V(18~36V) 48V(36~75V) | 5V 12V 15V | 1.5KVDC | -40~+75°C | 2"x 1"x 0.54" | | |
| | |  | SKM50W8 | 50W | 12V, 24V, 36V, 48V, 72V(9~75V) | 3.3V 5V 12V 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) 24V(18~36V) 48V(36~72V) | 5V 12V 15V 24V | Regulated | 1KVDC | -25 ~ +71°C | 2"x2"x0.43" | FCC/EAC/CE/UKCA |
| | | | DKE15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V ±24V | | 1KVDC | -25 ~ +71°C | 2"x2"x0.43" | |
| | | | DKA30 | 30W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V | | 1KVDC | -40 ~ +85°C | 2"x2"x0.82" | |
| | | | TKA30 | 30W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V/±12V 5V/±15V | | 1KVDC | -40 ~ +85°C | 2"x2"x0.82" | |
| | | | SKA40 | 40W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | | 1.5KVDC | -40 ~ +80°C | 2"x2"x0.43" | |
| | | | SKA60 | 60W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | | 1.5KVDC | -40 ~ +70°C | 2"x2"x0.43" | |
| | 1/2 Brick | | MHB75 | 75W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 24V | | 1.5KVDC | -40 ~ +100°C | 2.28"x2.4"x0.5" | UL/EAC/CE/UKCA |
| | | | MHB100 | 100W | 24V(18~36V) 48V(36~75V) | 5V 12V 24V | | 1.5KVDC | -40 ~ +100°C | 2.28"x2.4"x0.5" | |
| | | | MHB150 | 150W | 48V(36~75V) | 5V 12V 24V | | 1.5KVDC | -40 ~ +100°C | 2.28"x2.4"x0.5" | |
| | LED | NA | | LDD-300~700L | NA | 9~36V | | 2~32V | NA | NA (non-isolated) | -40 ~ +85°C |
| | | | 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/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

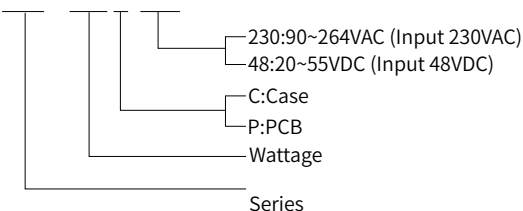


| Model No. | VFD-200C-230 | VFD-350C-230 | VFD-750C-230 |
|----------------|-------------------------------------|--------------|--------------|
| Appearance | Metal Case | | |
| Vin | 90~264VAC | | |
| Watt | 200W | 300W | 750W |
| Vout | 3 Phase UVW, line to line 0~240 VAC | | |
| Dimension (mm) |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



Powered by MEAN WELL

MEAN WELL has been cultivating the industrial standard power supply and LED power supply market for many years, and now it is the 3rd largest power supply and the 2nd largest LED driver brand in the world. Many of our equipment and lighting manufacturers see MEAN WELL as their quality assurance, and thus inspired us to implement the joint marketing idea of “PBM” (Powered by MEAN WELL).

As a starting point, we would be inviting high-quality customers who agree with MEAN WELL’s brand spirit, and provide them the “Powered by MEAN WELL” trademark, and enhance the brand awareness of both parties through various joint marketing methods.

Services after joining PBM



Key Account Membership

Purpose

As a pioneer in the field of standard power supplies, MEAN WELL keeps the constant goal of improving customer satisfaction. The KAM membership program provides customers with all kinds of support in terms of products, services, and cooperation. Based on the concept of “Trusting Partners for Sustainable Development” and combining SDG sustainable development goals, MEAN WELL invites significant partners to participate and let us create a win-win cooperation for better value.

Benefits



First Order Discount

Various discounts for first order based on membership levels



SDG Points Reward

Issue points every year according to the transaction quota of the previous year, 0.5%(MAX)



Instant Service

Enjoy direct and instant services such as online inventory inquiry, online order, transaction records, and global after-sales service.



Early Bird Offer

Enjoy the prioritized invitation for events like: I love Tamsui River, charity concerts, partner days and other activities

Sustainable Development Group



www.SDG-MSP.com

The prospect of Sustainable Development Group (SDG) was initiated by Jerry Lin, MEAN WELL's founder. He selected nine goals from United Nations Sustainable Development Goals (SDGs) and integrated the SDG spirits into the corporate sustainable development.

Sustainable Development Group is composed of four parts:

MEAN WELL Group, the solid foundation with 4 decades of history;

PowerNex, the equity investment company based in Taiwan;

Share Well, the group creates synergies through cooperation with power-related industries in China

MEAN WELL Foundation, the non-profit organization conserves the core value of "good intentions"

SDG Group aims to build industry alliances with global partners, and exerts the power of stability in the power supply industry, to make a better environment for the next generation



SUSTAINABLE DEVELOPMENT GROUP

Reliable Partners · Sustainable Development

Media Kit



MEAN WELL E-news

Find the "SUBSCRIBE" at the footer of MEAN WELL website. Fill in the E-News Subscribe Form, and last click the "SUBSCRIBE". Then, our confirmation e-mail will be sent to you.

MEAN WELL APP

Install MEAN WELL NEWS APP, and you won't miss our latest news.

SDG SHARE+

Based on the concept of SDG industry value network, it provides users with various system services, and connects suppliers, third parties and ESG partners in series to form a SDG sharing platform.

Social Media

01

02

03


04

01 YouTube

- Scan the QR code
- Press "SUBSCRIBE" button
- Turn on the bell. So you won't miss any videos



03 Facebook

- Scan the QR code
- Find the icon  and choose "FOLLOW"
- Don't forget to "Like" us.



02 LinkedIn

- Scan the QR code
- Navigate into MEAN WELL page and "Following" us.



04 WeChat

- Search official account "MEAN WELL" in WeChat APP
- Click the "FOLLOW" button



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Simpex Electronic AG
Binzackerstrasse 33
CH-8620 Wetzikon
Telefon +41 44 931 10 10
E-Mail contact@simpex.ch
Internet www.simpex.ch