

AP **Angst+Pfister**
Sensors and Power

MW
MEAN WELL



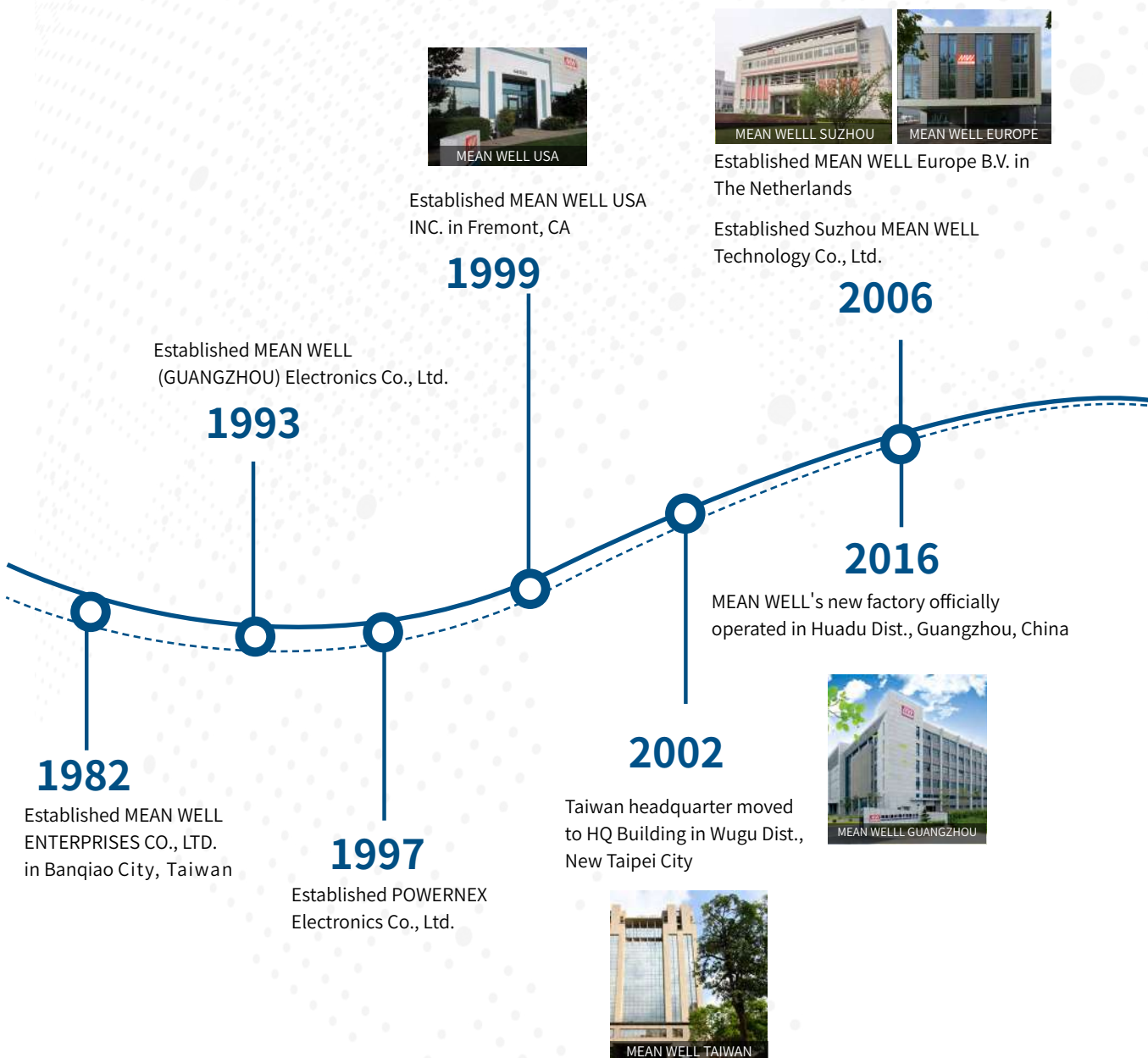
Your Reliable Power Partner
Standard Switching Power Supply Manufacturer



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 4th in global power supply (DC output) makers according to a report by Micro Technology released in March, 2021.

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.



MEAN WELL Smart Park officially operated in Suzhou, China
 SDG Take-off year
 SDG Group (MEAN WELL / POWERNEX / SHARE WELL) aims to establish more ESG companies.
 Established MEAN WELL Malaysia Sdn. Bhd.
 Established Suzhou SHARE WELL Tech. Co., Ltd
 Established Suzhou SHARE WELL SMD Technology Co., Ltd.
 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.

Consolidated revenue of US\$1 billion
 (approximately RMB 7 billion)

Established MEAN WELL International Co., Ltd, in Seoul, Korea

Established MEAN WELL ASEAN Regional Office in Kuala Lumpur, Malaysia

Established MEAN WELL Russia Representative Office in Saint-Petersburg

Established Guangzhou SHARE WELL Investment Co., Ltd.



Established SUZHOU SHARE WELL CERTIFICATION CO., LTD.



Historical Evolution: 1982—2023→



Competitiveness



Product

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



Quality

High reliability and quality indicator – 10% lower.



Cost

High cost-performance products, stable material price due to integration.



Delivery

24-hour delivery for small amount order, 14-day delivery for frequent purchase standard products.



Service

Service in 24 hours is offered by MEAN WELL Group and our distributors.



Reliable Relationship

75% of total revenue and purchases come from customers and suppliers with more than 15 years transaction.

Standard Power Supply Solution

2 Main Stream Product Lines



Enclosed Type



LED Driver

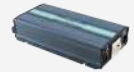
6 Niche Product Lines



DIN Rail Type



Battery Charger



DC/AC Inverter



DC/DC Converter



Adaptor



On Board Type

3+N System solutions



KNX Product



DALI-2 Controller



CMU2 Control and Monitor Unit



19" Rack Power



Modular Power



System Power

VFD Variable Frequency Drive



Enclosed Type



PCB Type

INDEX

AC-DC Enclosed



The Premium Series



The Best Cost-Performance

Without PFC

| | | | |
|-----------------|---------------|-----------------|----|
| General Economy | Single Output | LRS-35~600 | 01 |
| | | LRS-100N2~600N2 | 01 |
| | | SE-450~1500 | 02 |
| | | RS-15~150 | 03 |
| | Multi-Output | RD-35~125 | 03 |
| | | RID-50~125 | 03 |
| | | RT-50~125 | 04 |
| | | RQ-50~125 (RT) | 04 |

Built-in PFC

| | | | |
|-------------------------------|----------------------------|---------------------|----|
| General | Single Output | RSP-75~500 | 05 |
| | | RSP-750~3000 | 06 |
| | | NSP-1600~3200 | 07 |
| | | PSP-600/PSPA-1000 | 08 |
| | | HRP (G) -75~1000 | 09 |
| | | HRP (G) -150~1000N3 | 10 |
| | | DPU-3200 | 11 |
| | | PHP-3500 | 11 |
| | | RST-5000~10000 | 12 |
| | Multi-Output | QP-150~320 | 13 |
| | Fanless Potting | UHP-200~2500 | 14 |
| | High Voltage Output (HVDC) | UHP-1500-HV | 15 |
| | | HEP-2300-HV | 15 |
| CSP-3000 | | 15 | |
| PHP-3500-HV | | 15 | |
| RST-7K5-HV | | 16 | |
| RST-15K-HV | | 16 | |
| SHP-10K/30K-HV | 16 | | |
| DC Centralized Power Solution | | 17 | |
| | NHDD | 18 | |
| Programmable | SPV-150~300 | 19 | |
| Redundancy Module | ERDN-20~40 | 19 | |
| Medical | MSP-100~1000 | 20 | |





DIN Rail Type

| | | |
|---------------------|--------------|----|
| Step Shape | HDR-15~150 | 21 |
| Ultra Slim | MDR-10~100 | 22 |
| 1Φ Input | SDR-75~960 | 23 |
| | NDR-75~480 | 24 |
| | EDR-75~150 | 24 |
| 1Φ Ultra wide input | WDR-60~480 | 25 |
| 3Φ Input | TDR-240~960 | 25 |
| Specific Purpose | DRA-40~60 | 26 |
| | DRDN20~40 | 26 |
| | DBUF20~40 | 27 |
| | DUPS20~40 | 27 |
| | ICL-16~28R/L | 28 |




AC-DC PCB Open Frame

| | | | | |
|----------|------------|---------------|-----------------------------|----|
| On Board | Medical | MPM-05~20 | 29 | |
| | | MPM-30~90(ST) | 29 | |
| | | MFM-05~30 | 30 | |
| | Industrial | IRM-01~90 | 31 | |
| PCB | Medical | RPS-30~160 | 32 | |
| | | RPS-300~500 | 33 | |
| | | RPD-60~75 | 34 | |
| | | RPT-60~160 | 34 | |
| | | MPQ-200 | 34 | |
| | | PS-05 | 35 | |
| | Industrial | Single Output | EPS-15~120 | 35 |
| | | | EPP-100~500 | 36 |
| | | | LOP-200~600 | 37 |
| | | | LPS-50~100 | 38 |
| | | | ELP-75 | 38 |
| | | LPP-100~150 | 38 | |
| | | Multi-Output | PD-25/RPD-65/ PID-250 | 39 |
| | | | PT-45~65/RPT-65/ PPT-125 | 40 |






AC-DC Adaptor

| | | | |
|-----------------------------------|---|---|----|
| Desktop | Industrial |  GST18~360 | 41 |
| | | GP25~50 | 42 |
| | Medical | GSM40~220 | 43 |
| Wall-Mount | Industrial | GS05~06 | 44 |
| | | SGAS06~60 | 44 |
| | | SGA12~60 | 45 |
| | | GE12~40 | 46 |
| | Medical | GEM06~60 | 47 |
| | | GSM06~36 | 48 |
| | Medical + Industrial |  NGE12~90 | 49 |
| Type C |  NGE100 | 50 | |
| Moistureproof |  OWA60~200 | 51 | |
| DC Plug Converter Selection Guide | | | 52 |



Configurable Power

| | | | |
|----------------|---|-----------------------|----|
| Modular Series | | UMP-400 | 53 |
| |  | NMP-650~1K2 | 54 |
| | | MP-450~1K0 | 55 |
| | | MS-75~360 | 56 |
| | | MD-100 | 56 |
| 19" Rack Power |  | RCP-1000~2000 | 57 |
| | | RHP Rack Shelf | 57 |
| | | RKP Rack Shelf | 57 |
| |  | CMU2 Smart Controller | 58 |


Battery Charger

| | | | |
|--------------------|---|--------------|----|
| Portable (Plastic) | | GC30~330 | 59 |
| Portable (Metal) |  | ENP-120~360 | 60 |
| |  | ENC-120~360 | 60 |
| Fixed Type (Metal) |  | NPB-120~1700 | 61 |
| |  | NPP-450~1700 | 62 |
| | | RPB-1600 | 63 |
| |  | RCB-1600 | 63 |
| | | DBU-3200 | 63 |
| | | NCP-3200 | 63 |
| | | SBP-001 | 64 |
| | | HEP-600C | 65 |
| Bidirectional | | BIC-2200 | 65 |





DC-AC Inverter

| | | | |
|------------------|---|---------------|----|
| True Sine Wave |  | NTS-250~3200 | 66 |
| |  | NTU-1200~3200 | 67 |
| | | TN-1500~3000 | 68 |
| | | NTN-5000 | 69 |
| Modified Sine | | A301/A302 | 70 |
| Energy Recycling | | ERS-1400(H) | 71 |
| | | ERG-5000(H) | 71 |

Specific Purpose

| | | | |
|----------------------|---|-------------------|----|
| Harsh Envi. (IP67) | | HEP-100~2300 | 72 |
| Security |  | PSC-35~160 | 73 |
| | | ADS/AD/ADD-55~155 | 73 |
| | | SCP-35~75 | 74 |
| | | LAD-120~600 | 74 |
| | | DRC-40~180 | 75 |
| | | DRS-240~480 | 75 |
| KNX Power & Actuator | | KNX-20E~40E | 76 |
| | | KAA | 76 |
| LED Display | | LSP-160 | 77 |
| | | UHP-200A | 77 |
| LED Rainproof | | ERP-200/350 | 77 |
| | | ERPF-400 | 77 |

DC-DC Converter

| | | | |
|------------------------|---|--------------|-------|
| Industrial | | SD-15~1000 | 78 |
| Railway |  | RSD-30~500 | 79 |
| Industrial + Railway |  | DDR-15~480 | 80 |
| PV/Energy Storage |  | DDRH-15~240 | 81 |
| |  | RSDH-150~300 | 81 |
| Module Selection Guide | | | 82~88 |

VFD Variable Frequency Drive

| | | |
|-----------------------------|-------------|----|
| Variable Frequency Drive | VFD-150~750 | 89 |
| PBM | | 90 |
| KAM | | 90 |
| SDG Sustainable Development | | 91 |
| Media Tools | | 92 |

LRS Series 35~600W Low profile Single Output Enclosed Type



LRS-200 LRS-150 LRS-100 LRS-75 LRS-35/50
LRS-200N2 LRS-150F LRS-100N2



LRS-350-600
LRS-350-600N2



Features

- Withstand 300 VAC 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-150~600)
- Cooling by free air convection (LRS-35~200)
- **Provide 200% peak power (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

Models



| Model No. | LRS-35 | LRS-50 | LRS-75 | LRS-100 | LRS-100N2 | LRS-150F | LRS-150 |
|----------------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|
| 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 |
| | 12V, 0~3A | 5V, 0~10A | 12V, 0~6A | 5V, 0~18A | 24V, 0~4.5A | 12V, 0~12.5A | 15V, 0~10A |
| | 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 |
| | 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 |
| | 36V, 0~1A | 24V, 0~2.2A | 36V, 0~2.1A | 24V, 0~4.5A | | 36V, 0~4.3A | 48V, 0~3.3A |
| | 48V, 0~0.8A | 36V, 0~1.45A | 48V, 0~1.6A | 36V, 0~2.8A | | 48V, 0~3.3A | |
| Dimension (mm) | 99x82x30 | | 99x97x30 | 129x97x30 | | 159x97x30 | |

| Model No. | LRS-200 | LRS-200N2 | LRS-350 | LRS-350N2 | LRS-450 | LRS-600 | LRS-600N2 |
|----------------|----------------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Vin | 115/230VAC by switch | | | | | | |
| Vout /Iout | 3.3V, 0~40A | 12V, 0~17A | 3.3V, 0~60A | 12V, 0~29A | 5V, 0~75A | 5V, 0~100A | 12V, 0~50A |
| | 4.2V, 0~40A | 24V, 0~8.8A | 4.2V, 0~60A | 24V, 0~14.6A | 12V, 0~37.5A | 12V, 0~50A | 24V, 0~25A |
| | 5V, 0~40A | 36V, 0~5.9A | 5V, 0~60A | 36V, 0~9.7A | 15V, 0~30A | 15V, 0~40A | 36V, 0~16.6A |
| | 12V, 0~17A | 48V, 0~4.4A | 12V, 0~29A | 48V, 0~7.3A | 24V, 0~18.8A | 24V, 0~25A | 48V, 0~12.5A |
| | 15V, 0~14A | | 15V, 0~23.2A | | 36V, 0~12.5A | 27V, 0~22.2A | |
| | 24V, 0~8.8A | | 24V, 0~14.6A | | 48V, 0~9.4A | 36V, 0~16.6A | |
| | 36V, 0~5.9A | | 36V, 0~9.7A | | | 48V, 0~12.5A | |
| | 48V, 0~4.4A | | 48V, 0~7.3A | | | | |
| Dimension (mm) | 215x115x30 | | 215x115x30 | | 225x124x35 | 225x124x41 | |

450~1500W Medium/High Power Enclosed Type

SE Series



SE-1500

SE-1000

SE-600

SE-450



SE Spec

Features

- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- With DC_OK signal output, built-in remote ON-OFF control (SE-1000/1500)
- LED indicator for power on
- 2 years warranty

Models



| Model No. | SE-450 | SE-600 | SE-1000 | SE-1500 |
|----------------|----------------------|--------------|--------------|----------------|
| Vin | 115/230VAC by switch | | | 180~264VAC |
| Vout /Iout | 3.3V, 0~75A | 5V, 0~100A | 5V, 0~150A | 5V, 0~300A |
| | 5V, 0~75A | 12V, 0~50A | 9V, 0~100A | 12V, 0~125A |
| | 12V, 0~37.5A | 15V, 0~40A | 12V, 0~83.3A | 15V, 0~100A |
| | 15V, 0~30A | 24V, 0~25A | 15V, 0~66.7A | 24V, 0~62.5A |
| | 24V, 0~18.8A | 27V, 0~22.2A | 24V, 0~41.7A | 27V, 0~55.6A |
| | 36V, 0~12.5A | 36V, 0~16.6A | 48V, 0~20.8A | 48V, 0~31.3A |
| | 48V, 0~9.4A | 48V, 0~12.5A | | |
| Dimension (mm) | 225x124x50 | 247x127x63.5 | 278x127x63.5 | 278x177.8x63.5 |

* Highly recommended to use LRS-450/600 for SE-450/600 replacement

G3 Series

15~150W Miniwatt Multi-Output Enclosed Type



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



G3 Spec

Features

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

Models

Single Output



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

Dual Output

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

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

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

RT-125
RQ-125RT-85
RQ-85RT-65
RQ-65RT-50
RQ-50

G3 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)

RSP Series

75~500W Low/Medium Power Enclosed Type
(with PFC function)



RSP-200 RSP-150 RSP-100 RSP-75



RSP-500 RSP-320



RSP 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.

750~3200W High Power Enclosed Type (with PFC function)

RSP Series



RSP-2400/3000

RSP-1500



RSP-2000

RSP-1000

RSP-750

RSP-1600



RSP Spec

Features

- 1U low profile(41mm): RSP-750/1000/1600/2000
- Active PFC function
- Forced air cooling by built-in DC fan
- High power density up to 25W/in³(RSP-1600)
- Output voltage programmable: Widest up to 40~125%
- Constant current level ICC 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
- 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 |

NSP Series

1600~3200W High Power Enclosed Type
(with PFC function)



NSP-1600

NSP-3200



NSP Spec

Features

- Universal full range input: 90~264 VAC
- Active PFC function
- Forced air cooling by built-in DC fan
- 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-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 |

HRP Series

75~1000W High Reliability Enclosed Type
(with PFC function)



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



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)
- Built-in 5V / 0.3A standby output (HRPG Series)
- DC OK signal output ($\geq 200W$)
- Current sharing function (HRPG-600-24/36/48,HRPG-1000)
- Cooling by free air ($\leq 200W$)
- 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 <0.5~0.75W



HRP-150N3

HRP-300N3

HRP-600N3

HRPG-1000N3



HRP-N3 Spec

Features

- Universal full range input: 85~264 VAC
- Withstand 300 VAC surge input for 5 sec
- Built-in active PFC function, PF > 0.95
- **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 | 218x105x63.5 | 218x105x61.5 |

DPU/PHP Series 3200/3500W High Power (with PFC function)



DPU-3200



PHP-3500



Optional
(Order No: HS-656)



DPU Spec



PHP Spec

■ DPU-3200 Features

- Universal full range input: 90~264 VAC
- 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
- Optional conformal coating
- **5 years warranty**

■ PHP-3500 Features

- Universal full range input: 90~264 VAC
- High efficiency up to 96%
- **Fanless design, water-cooled power supply**
- 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)
- Optional PMBus or CANBus protocol
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Optional conformal coating
- **Optional cold plate for effortless implementation**
- **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 |



RST-5000



RST-10000



RST Spec

Features

- 3 phase input: 3-wire/ Δ 196~305 VAC or 4-wire/Y340~530 VAC
- Built-in active PFC function
- High efficiency up to 92.5%
- Protections: Short Circuit/Overload/Over Voltage/Over Temperature/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 sense and ON/OFF control
- Built-in 12V/0.1A auxiliary output
- Alarm signal output
- 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 function)



QP-320

QP-200

QP-150



QP Spec

Features

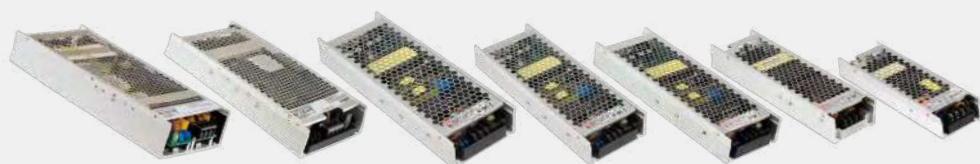
- Universal full range input: 90~264 VAC
- Protections: Short Circuit/Overload/Over Voltage/Over Temp. (Optional for QP-150)
- Forced air cooling by built-in DC fan
- Built-in active PFC function
- CH1 & 2 can be adjustable from -5%~+10% (QP-200/320)
- CH1 & 2 remote sense function (QP-200/320)
- With 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-200D | QP-200F | QP-320D | QP-320F |
|----------------|---------------|-------------|-------------|--------------|----------------|
| Vout / Iout | CH1 | 5V, 3.0~20A | 5V, 3~20A | 5V, 2.5~20A | 5V, 2.5~20A |
| | CH2 | 12V, 0~7A | 15V, 0~6.0A | 12V, 0~10A | 15V, 0~10A |
| | CH3 | 24V, 0.4~6A | 24V, 0.4~6A | 24V, 0.2~5A | 24V, 0.2~5A |
| | CH4 | -12V, 0~1A | -15V, 0~1A | -12V, 0.2~2A | -15V, 0.2~1.6A |
| Dimension (mm) | 215x115x50 | | | 215x115x50 | |

200~2500W Fanless Power Supply(with PFC function) **UHP Series**

UHP-2500

UHP-1500

UHP-1000

UHP-750

UHP-500

UHP-350

UHP-200



UHP Spec

Features

- Universal full range input: 90~264 VAC
- 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

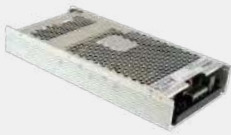


| Model No. | UHP-200□ | UHP-350□ | UHP-500□ | UHP-750 | UHP-1000 | UHP-1500 | UHP-2500 |
|----------------|--------------|--------------|---------------|--------------|------------|--------------|---------------|
| Vout / Iout | 3.3V, 0~40A | 3.3V, 0~60A | 4.2V, 0~80A | 12V, 0~60A | 12V, 0~80A | 24V, 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 function)



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
- Optional 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: 90~305 VAC
- 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 | 199x98x38 |

7.5KW~30KW DC High Voltage Output Power Supply (with PFC function)

High Voltage Models



RST/SHP Features

- 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 196~305VAC or 3Ø4W 340~530VAC | | 3Ø3W 340~530VAC | |
| Vout / Iout | 115V, 0~65A | 115V, 0~130A | 55V, 0~150A | 55V, 0~450A |
| | 230V, 0~34.5A | 230V, 0~69A | 115V, 0~87A | 115V, 0~261A |
| | 380V, 0~22.5A | 380V, 0~45A | 230V, 0~46.2A | 230V, 0~139A |
| | | | 380V, 0~30A | 380V, 0~90A |
| Dimension (mm) | 460x211x83.5 | 540x424x83.5 | 460x211x83.5 | 540x424x83.5 |

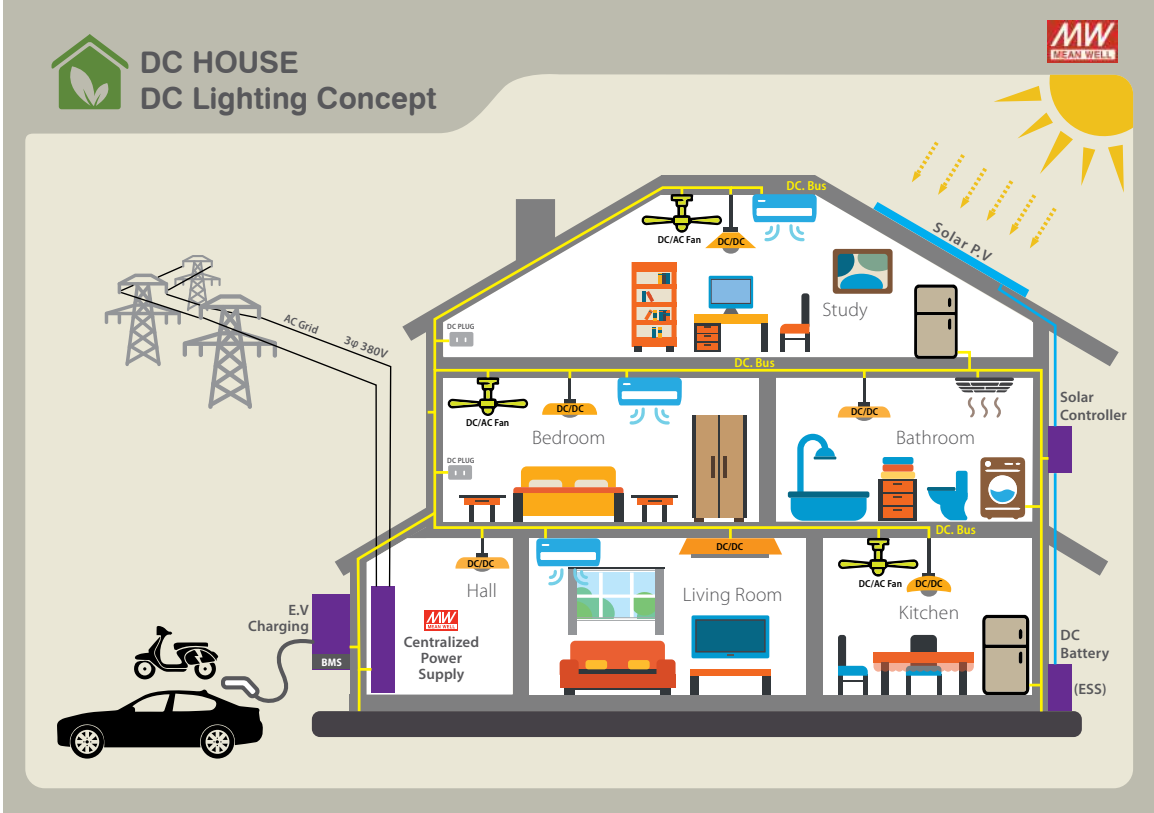
Note: The SHP-30K-HV series is under development, expected to be launched in Q4 of 2023.

DC Hous

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(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(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.

SPV/ERDN Series

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



SPV-150



SPV-300



ERDN20



ERDN40



SPV Spec



ERDN Spec

■ SPV Features

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

■ ERDN Features

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

■ Models



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



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

□=5, 12, 24, 48

□=12, 24, 48



Features

- Universal full range input: 85~264 VAC
- **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**

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 |

HDR Series

15~150W Step Shape DIN Rail Power



HDR-15

HDR-30

HDR-60

HDR-100

HDR-150



HDR Spec

Features

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

Models



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

HDR-100: 92W max., pass LPS

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



MDR-10

MDR-20

MDR-40

MDR-60

MDR-100

Features

- Universal full range input: 85~264 VAC
- **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, 0~1A | 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 |

SDR Series

75~960W High Performance DIN Rail Power



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-75 NDR-120 NDR-240 NDR-480



EDR-75 EDR-120 EDR-150



NDR Spec



EDR Spec

Features

- Universal full range input:90~264 VAC
- 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 |

WDR/TDR Series

WDR 60~480W Single-Phase Wide Input DIN Rail
 TDR 240~960W Three-Phase Wide Input DIN Rail



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



TDR-240 TDR-480 TDR-960



WDR Spec



TDR Spec

WDR Features

- Single or two 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

- 3-phase, 340~550VAC wide range input (2-phase 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 Features

- Universal full range input: 90~264 VAC
- 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
- 2 channels input and 1 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 DIN Rail Buffer Module
DUPS 20A/40A DIN Rail Uninterruptible DC-UPS Module



DBUF Features

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

DUPS Features

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

Models



| 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



ICL Spec

Features

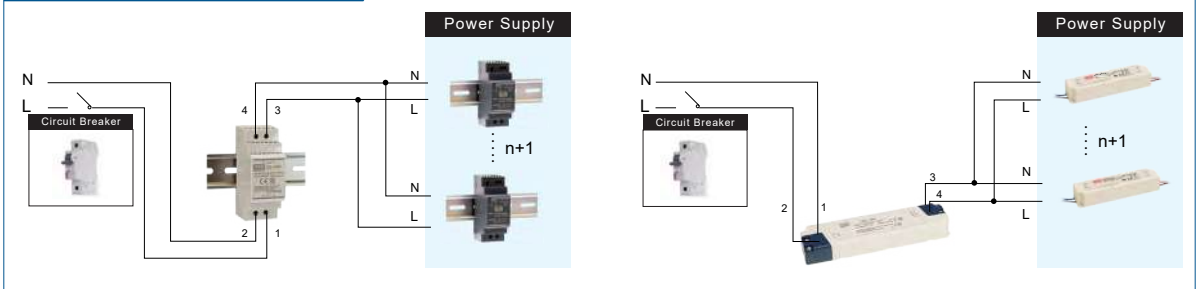
- ICL-16R/L: 23A inrush current limiting, 16A continuous
- ICL-28R/L: 48A inrush current limiting, 28A continuous
- 180~264VAC input
- Integrated bypass relay, no simple NTC
- Internal thermal protection
- DIN Rail: TS-35/7.5 or 15 (ICL-16R/28R)
- -30~+70°C wide operating temperature
- Over voltage category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

MPM Series 5~90W Medical PCB-Mounted Module



MPM-05/10



MPM-15/20



MPM-30



MPM-30-xST



MPM-45/65/90



MPM-45/65/90-xST



MPM Spec

Features

- Universal full range input: 85~264 VAC
- 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 <0.075~0.1W
- EMI class B for class II configuration
- **-40~+85°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



MFM-05/10



MFM-15/20



MFM-30



MFM 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 < 0.075~0.1W
- EMI class B for Class II configuration
- **-40~+85°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 |
| 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 + Home 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> |

Note: The LOP-200~600 series is under development, expected to be launched in Q4 of 2023.

IRM Series

1~90W Industrial PCB-Mounted Module



IRM-01/02

IRM-01S/02S

IRM-03

IRM-03S

IRM-05/10

IRM-15/20



IRM-30



IRM-30-xST



IRM-45/60/90



IRM-45/60/90-xST



IRM 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
- OVC III (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-x□ | 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: 33.7x22.2x15 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

30~200W Single Output Medical PCB Type

RPS Series



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



RPS Spec

Features

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

Models



| 3" x 2" | | | | |
|----------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| Model No. | RPS-30 (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 Series

300~500W Single Output Medical PCB Type



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

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



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



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



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



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



Spec

Features

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

Models

Dual Output



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

Triple Output

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

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

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

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

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

Quad Output

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

EPS Series

5~120W Single Output Industrial PCB Type



PS-05
(2.95"x1.57")



EPS-15
(2.5"x1.8")



EPS-25/35
(3"x2")



EPS-45S/65S
(3"x2")



EPS-45/65
(4"x2")



EPS-45-x-C
EPS-65-x-C
(4"x2")



EPS-120
(4"x2")



EPS Spec

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

Models



| | 2.95"x1.57" | 2.5"x1.8" | 3"x2" | | | |
|----------------|---------------|---------------|--------------|--------------|--------------|--------------|
| Model No. | PS-05 | EPS-15 | EPS-25 | EPS-35 | EPS-45S | EPS-65S |
| Vin | 85~264VAC | 85~264VAC | 85~264VAC | 85~264VAC | 80~264VAC | 80~264VAC |
| Vout / Iout | 5V, 0~1A | 3.3V, 0~3A | 3.3V, 0~5A | 3.3V, 0~6A | 3.3V, 0~8A | 3.3V, 0~10A |
| | 12V, 0~0.45A | 5V, 0~3A | 5V, 0~5A | 5V, 0~6A | 5V, 0~8A | 5V, 0~10A |
| | 15V, 0~0.35A | 7.5V, 0~2A | 7.5V, 0~3.4A | 7.5V, 0~4.7A | 7.5V, 0~5.4A | 7.5V, 0~8A |
| | 24V, 0~0.22A | 12V, 0~1.25A | 12V, 0~2.1A | 12V, 0~3A | 12V, 0~3.8A | 12V, 0~5.42A |
| | 48V, 0~0.11A | 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) | 75x40x20 | 63.5x45.7x24 | 76.2x50.8x24 | 76.2x50.8x24 | 76.2x50.8x24 | 76.2x50.8x24 |

| | 4"x2" | | |
|----------------|---------------------------------------|------------|---------------|
| Model No. | EPS-45-x□ | EPS-65-x□ | EPS-120 |
| Vin | 90~264VAC | 90~264VAC | 80~264VAC |
| Vout / Iout | 3.3V, 8A | 3.3V, 11A | 12V, 7A |
| | 5V, 8A | 5V, 11A | 15V, 5.6A |
| | 7.5V, 5.4A | 7.5V, 8A | 24V, 3.5A |
| | 12V, 3.75A | 12V, 5.42A | 27V, 3.15A |
| | 15V, 3A | 15V, 4.34A | 48V, 1.75A |
| | 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 |

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



EPP-120S
(3"x2")

EPP-100
(4"x2")

EPP-150
(4"x2")

EPP-200
(4"x2")

EPP-300
(5"x3")

EPP-400
(5"x3")

EPP-500
(5"x3")



EPP Spec

Features

- Universal AC input/Full range
- Built-in Active PFC
- Class I or Class II installations
- No load power consumption < 0.5W
- High efficiency up to 94%
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- 12V for external FAN supply (EPP-300~500)
- PG signal & remote sense function (EPP-300~500)
- Operating altitude up to 5000 meters (EPP-120S~500)
- LED indicator for power on (Except for EPP-120S)
- 3 years warranty

Models



| Model No. | 3"x2" | | 4"x2" | |
|----------------|---------------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | EPP-120S (Convection/Peak 10 sec.) | EPP-100 (Convection/20CFM) | EPP-150 (Convection/20CFM) | EPP-200 (Convection/10CFM) |
| Vin | 80~264VAC | 90~264VAC | 90~264VAC | 80~264VAC |
| Vout / Iout | 12V, 9.5A / 11.8A | 12V, 6.3A / 8.5A | 12V, 8.4A / 12.5A | 12V, 11.7A / 16.7A |
| | 15V, 7.6A / 9.5A | 15V, 5A / 6.67A | 15V, 6.7A / 10A | 15V, 9.4A / 13.4A |
| | 24V, 5A / 6.25A | 24V, 3.2A / 4.2A | 24V, 4.2A / 6.25A | 24V, 5.9A / 8.4A |
| | 27V, 4.44A / 5.55A | 27V, 2.8A / 3.71A | 27V, 3.71A / 5.56A | 27V, 5.3A / 7.5A |
| | 48V, 2.5A / 3.125A | 48V, 1.6A / 2.1A | 48V, 2.1A / 3.125A | 48V, 3A / 4.2A |
| Dimension (mm) | 76.2x50.8x28 | 101.6x50.8x29 | 101.6x50.8x29 | 101.6x50.8x29 |

| Model No. | 5"x3" | | |
|----------------|---------------------------------|-------------------------------|-------------------------------|
| | EPP-300 (Convection/20.5CFM) | EPP-400 (Convection/25CFM) | EPP-500 (Convection/25CFM) |
| Vin | 90~264VAC | 80~264VAC | 80~264VAC |
| 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 | 24V, 10.5A / 16.7A | 18V, 17.8A / 27.8A |
| | 27V, 7.4A / 11.12A | 27V, 9.3A / 14.9A | 24V, 13.4A / 20.8A |
| | 48V, 4.17A / 6.25A | 36V, 7A / 11.2A | 27V, 11.9A / 18.5A |
| | | 48V, 5.3A / 8.4A | 36V, 8.9A / 13.9A |
| | | | 48V, 6.7A / 10.4A |
| | | | 54V, 5.93A / 9.26A |
| Dimension (mm) | 127x76.2x35 | 127x76.2x35 | 127x76.2x41 |

LOP Series

200~600W Low Profile Single Output PCB Type
(with PFC function)



Product
Roadmap



LOP-200
(4"x2")



LOP-300
(4"x2")



LOP-400
(5"x3")



LOP-500
(5"x3")



LOP-600
(5"x3")

Features

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

Models



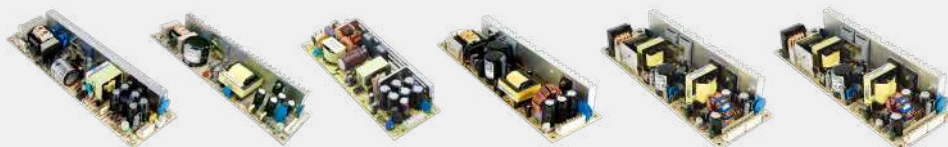
| 4"x2" | | |
|----------------|---|---|
| Model No. | LOP-200 (Convection/10.98 CFM/Peak 3 sec.) | LOP-300 (Convection/10.98 CFM/Peak 3 sec.) |
| Vout / Iout | 12V, 11.7A/16.7A/25A | 12V, 15A/25A/37.5A |
| | 15V, 9.4A/13.4A/20A | 15V, 12A/20A/30A |
| | 18V, 7.8A/11.1A/16.7A | 18V, 10A/16.7A/25A |
| | 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) | 101.6x50.8x 25.4 | |

| 5"x3" | | | |
|----------------|--|--|--|
| 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) | 127x76.2x 27.5 | 127x76.2x 30.5 | 127x76.2x 33.5 |

Note: The LOP-200~600 series is under development, expected to be launched in Q4 of 2023.

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 Energy Saving 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



GST Spec

Features

- Global Certified
- No load power consumption <0.075W~0.5W
- 450W peak power for 3 sec.(Only GST360)
- 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 (≥40W)
- Fanless design with -30~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.(≥60W)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS(≤60W)
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.52)

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 Energy Saving Adaptor (Desktop Type)

GP Series



GP25A
107.5x67x36mm



GP25B
107.5x67x36mm



GP50A
146x75.5x43mm



GP 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 Energy Saving 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.52)**

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

5~60W Slim Industrial Energy Saving Adaptor (Wall-Mounted Type)

GS/SGAS Series



Features

- Slim Type, occupy one power jack only
- Universal AC input/Full range: 90~264VAC
- No load power consumption <0.075W~0.1W
- Energy efficiency VI
- Comply with EISA 2007/DoE, EU ErP, CoC Version 5
- -20~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage
- Pass LPS
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.52)

Models



| Model No. | GS05U-USB | GS05E-USB | GS06U | GS06E |
|-------------|-----------|-----------|---------------|---------------|
| Vout / Iout | 5V, 0~1A | 5V, 0~1A | 5V, 0~1A | 5V, 0~1A |
| | / | | 7.5V, 0~0.8A | 7.5V, 0~0.8A |
| | | | 9V, 0~0.66A | 9V, 0~0.66A |
| | | | 12V, 0~0.5A | 12V, 0~0.5A |
| | | | 15V, 0~0.4A | 15V, 0~0.4A |
| | | | 18V, 0~0.33A | 18V, 0~0.33A |
| | | | 24V, 0~0.25A | 24V, 0~0.25A |
| | | | 48V, 0~0.125A | 48V, 0~0.125A |

| Model No. | SGAS06□ | SGAS15○ | SGAS60□ |
|-------------|---------------|---------------|--------------|
| Vout / Iout | 5V, 0~1A | 5V, 0~2.4A | 5V, 0~6A |
| | 7.5V, 0~0.8A | 9V, 0~1.66A | 12V, 0~5A |
| | 9V, 0~0.66A | 12V, 0~1.25A | 15V, 0~4A |
| | 12V, 0~0.5A | 15V, 0~1A | 24V, 0~2.5A |
| | 15V, 0~0.4A | 24V, 0~0.625A | 48V, 0~1.25A |
| | 24V, 0~0.25A | | |
| | 48V, 0~0.125A | | |

□=U / E Class II — U: American 2P E: European 2P
 ○=A / B / U / E Class I — A: IEC320-C14 Class II — B: IEC320-C8 U: American 2P E: European 2P

※ The pricing and performance of NGE series are better than GS/SGAS series
 It is highly recommended to use NGE series for new project.

SGA Series

12~60W Industrial Energy Saving Adaptor
(Wall-Mounted Type)



Features

- Universal AC input/Full range: 90~264VAC
- No load power consumption <0.075W~0.15W
- Energy efficiency VI
- -20~60°C wide range working temp.
- 2 pole US/EU type plug, Class II power unit
- Comply with EISA 2007/DoE, EU ErP
- Protections: Short Circuit/Overload/Over Voltage
- Fully enclosed plastic case
- Pass LPS
- LED indicator for power on (Only SGA60)
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.52)

Models



| Model No. | SGA12□ | SGA25□ | SGA40□ | SGA60□ |
|-------------|---------------|-------------|--------------|--------------|
| Vout / Iout | *USB:5V, 2.4A | 5V, 4A | 5V, 0~5A | 5V, 0~6A |
| | P1J:5V, 2.4A | 7.5V, 2.93A | 9V, 0~4.44A | 7.5V, 0~6A |
| | 7.5V, 1.6A | 9V, 2.77A | 12V, 0~3.33A | 9V, 0~5.5A |
| | 9V, 1.33A | 12V, 2.08A | 15V, 0~2.66A | 12V, 0~5A |
| | 12V, 1A | 15V, 1.66A | 18V, 0~2.22A | 15V, 0~4A |
| | 15V, 0.8A | 18V, 1.38A | 24V, 0~1.67A | 18V, 0~3.33A |
| | 18V, 0.666A | 24V, 1.04A | 48V, 0~0.84A | 24V, 0~2.5A |
| | 24V, 0.5A | 48V, 0.52A | | 48V, 0~1.25A |
| | 48V, 0.25A | | | |

□=U / E U: American 2P E: European 2P

*USB Type: 5V output only

※ The pricing and performance of NGE series are better than SGA series
It is highly recommended to use NGE series for new project.

12~40W AC Interchangeable Industrial Adaptor (Wall-Mounted Type)

GE Series



GE12 70.7x40x38.8mm
 GE18/24/30 81x43x40.5mm
 GE40 94x48.4x40mm



GE Spec

Features

- Universal AC input/Full range: 90~264VAC
- Interchangeable AC plugs (plug kit sold separately)
- No load power consumption <0.075W
- Energy efficiency VI
- Comply with EISA 2007/DoE, EU ErP
- Class II power (without earth pin)
- Protections: Short Circuit/Overload/Over Voltage
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- 2 years warranty
- Various DC plugs & accessories available (Refer to P.52)

Models



| Model No. | GE12I | GE18I | GE24I | GE30I | GE40I |
|-------------|---------------|---------------|--------------|--------------|---------------|
| Vout / Iout | 5V, 0~2.A | 5V, 0~2.4A | 5V, 0~3A | 12V, 0~2.5A | 5V, 0~4A |
| | 7.5V, 0~1.33A | 7.5V, 0~1.73A | 7.5V, 0~2A | 15V, 0~2A | 7.5V, 0~2.66A |
| | 9V, 0~1.33A | 9V, 0~2A | 9V, 0~2.22A | 18V, 0~1.66A | 9V, 0~3.3A |
| | 12V, 0~1A | 12V, 0~1.5A | 12V, 0~2A | 24V, 0~1.25A | 12V, 0~3.3A |
| | 15V, 0~0.8A | 15V, 0~1.2A | 15V, 0~1.6A | | 15V, 0~2.7A |
| | 18V, 0~0.83A | 18V, 0~1A | 18V, 0~1.33A | | 18V, 0~2.2A |
| | 24V, 0~0.625A | 24V, 0~0.75A | 24V, 0~1A | | 24V, 0~1.67A |
| | | 48V, 0~0.375A | 48V, 0~0.5A | | 36V, 0~1.11A |
| | | | | 48V, 0~0.83A | |

Interchangeable AC Plug Specifically for GE Series

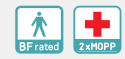
| AC Plug Type and Order No. | | | | | |
|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|
| AC Plug-AU3 (for GE40 only) | AC Plug-AU (for GE12~30) | AC Plug-UK (for GE12~40) | AC Plug-EU (for GE12~40) | AC Plug-US (for GE12~40) | AC Plug-MIX (for GE12~30) AC Plug-MIX3 (for GE40 only) |
| | | | | | |
| Australian Type | Australian Type | U.K. Type | European Type | U.S. Type | Mixed Four Type |

Note: The main body unit and AC plug should be ordered separately.
 The main body needs to be used along with any one of the AC plug.

※ The pricing and performance of NGE series are better than GE series
 It is highly recommended to use NGE series for new project.

GEM Series

6~60W AC Interchangeable Medical Adaptor (Wall-Mounted Type)



- GEM06I
- GEM12I
- GEM18I
- GEM30I
- GEM40I
- GEM60I



Features

- Universal AC input/Full range: 80~264VAC
- Interchangeable AC plugs (Plug kit sold separately)
- Medical safety approved (2xMOPP)
- Extremely low leakage current
- Suitable for BF application with appropriate system consideration
- No load power consumption <0.075~0.15W
- Energy efficiency Level VI (Level V for GEM06I)
- Comply with EISA 2007/DoE and EU ErP
- Class II power (without earth pin)
- -20~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage
- Fully enclosed plastic case
- IP21/IP22 Level
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.52)

Models



| Model No. | GEM06I | GEM12I | GEM18I | GEM30I | GEM40I | GEM60I |
|----------------|-----------------|-----------------|----------------|---------------|--------------|--------------|
| Vout / Iout | *USB:5V, 0~1.2A | *USB:5V, 0~2.4A | 5V, 0~3A | 5V, 0~4A | 5V, 0~5A | 5V, 0~6A |
| | P1J:5V, 0~1.2A | P1J:5V, 0~2.4A | 9V, 0~2A | 7.5V, 0~3.33A | 9V, 0~4A | 7.5V, 0~6A |
| | 6V, 0~1A | 7.5V, 0~1.6A | 12V, 0~1.5A | 9V, 0~3.33A | 12V, 0~3.33A | 9V, 0~5.5A |
| | 7.5V, 0~0.8A | 9V, 0~1.33A | 15V, 0~1.2A | 12V, 0~2.5A | 15V, 0~2.66A | 12V, 0~4.5A |
| | 9V, 0~0.66A | 12V, 0~1A | 18V, 0~1A | 15V, 0~2A | 18V, 0~2.22A | 15V, 0~4A |
| | 12V, 0~0.5A | 15V, 0~0.8A | 24V, 0~0.75A | 18V, 0~1.66A | 24V, 0~1.66A | 18V, 0~3.33A |
| | 15V, 0~0.4A | 18V, 0~0.66A | 48V, 0~0.375A | 24V, 0~1.25A | 48V, 0~0.83A | 24V, 0~2.5A |
| | 18V, 0~0.33A | 24V, 0~0.5A | | 48V, 0~0.625A | | 48V, 0~1.25A |
| | 24V, 0~0.25A | 48V, 0~0.25A | | | | |
| Dimension (mm) | 73.9x39x48.5 | | 75.5x39.1x56.2 | | | |

*USB Type: 5V output only

Interchangeable AC Plug Specifically for GEM Series

| AC Plug Type and Order No. | | | | |
|----------------------------|-------------|---------------|-------------|-----------------|
| AC Plug-AU2 | AC Plug-UK2 | AC Plug-EU2 | AC Plug-US2 | AC Plug-MIX2 |
| | | | | |
| Australian Type | U.K. Type | European Type | U.S. Type | Mixed Four Type |

Note: The main body unit and AC plug should be ordered separately. The main body needs to be used along with any one of the AC plug.

※ The pricing and performance of NGE series are better than GEM series. It is highly recommended to use NGE series for new project.

6~60W Medical Energy Saving Adaptor (Wall-Mounted Type)

GSM Series



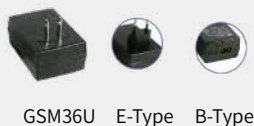
GSM06U E-Type



GSM12E U-Type USB Type



GSM18U/25U B-Type E-Type



GSM36U E-Type B-Type



GSM60U/E U-Type E-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 Level VI (GSM06/18/25 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 (Except for GSM06/12)
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- **3 years warranty**
- **Various DC plugs & accessories available (Refer to P.52)**

Models



| Model No. | GSM06□ | GSM12□ | GSM18□ | GSM25□ | GSM36□ | GSM60□ |
|----------------|---------------------------|---------------------------|-----------------------------------|-----------------------------------|------------------------------------|---------------------------|
| Vout / Iout | 5V, 0~1.2A | *USB:5V, 0~2.4A | 5V, 0~3A | 5V, 0~4A | 5V, 0~4.5A | 5V, 0~6A |
| | 6V, 0~1A | PIJ:5V, 0~2.4A | 7.5V, 0~2A | 7.5V, 0~2.93A | 7.5V, 0~4.32A | 7.5V, 0~6A |
| | 7.5V, 0~0.8A | 7.5V, 0~1A | 9V, 0~2A | 9V, 0~2.77A | 9V, 0~4A | 9V, 0~5.5A |
| | 9V, 0~0.66A | 9V, 0~1.33A | 12V, 0~1.5A | 12V, 0~2.08A | 12V, 0~3A | 12V, 0~4.5A |
| | 12V, 0~0.5A | 12V, 0~1A | 15V, 0~1.2A | 15V, 0~1.66A | 15V, 0~2.4A | 15V, 0~4A |
| | 15V, 0~0.4A | 15V, 0~0.8A | 18V, 0~1A | 18V, 0~1.38A | 18V, 0~2A | 18V, 0~3.33A |
| | 18V, 0~0.33A | 18V, 0~0.66A | 24V, 0~0.75A | 24V, 0~1.04A | 24V, 0~1.5A | 24V, 0~2.5A |
| | 24V, 0~0.25A | 24V, 0~0.5A | 48V, 0~0.375A | 48V, 0~0.52A | 48V, 0~0.75A | 48V, 0~1.25A |
| | 48V, 0~0.25A | | | | | |
| Dimension (mm) | 66x32x42.5 | 62.2x27.4x45.5 | 79x54x33 | 79x54x33 | 79x54x33 | 75.5x32x47.5 |
| | □=U / E (Wall-mounted) | □=U / E (Wall-mounted) | □=B(Desktop) U/E(Wall-mounted) | □=B(Desktop) U/E(Wall-mounted) | □=B (Desktop) U/E(Wall-mounted) | □=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/Home Energy Saving Adaptor (Wall-Mounted Type)



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



Features

- Interchangeable AC plugs (Originally with folded US plug; UK, EU, AU convertible)
- CN plug (Non-interchangeable)
- Universal AC input/Full range: 80~264VAC
- ITE 62368-1, medical 60601-1, household 60335-1 safety approved
- Extremely low leakage current, suitable for BF application with appropriate system consideration
- Ultra slim design(28~30mm)
- No load power consumption <0.075~0.1W
- Energy efficiency Level VII
- Complies with EISA 2007/DoE, EU ErP & CoC Version 5
- -30~+70°C wide range working temp.
- Protections: Short Circuit/Overload/Over Voltage
- IP22 Level
- 3 years warranty
- Various DC plugs & accessories available (Refer to P.52)

Models



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

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

Interchangeable AC Plug Specifically for NGE Series

| AC Plug Type and Order No. | | | |
|----------------------------|-------------|---------------|------------------|
| AC Plug-AU4 | AC Plug-UK4 | AC Plug-EU4 | AC Plug-MIX4 |
| | | | |
| Australian Type | U.K. Type | European Type | Mixed Three Type |

The NGE series is under development, expected to be launched in Q4 of 2023.



NGE100



Product Roadmap

Features

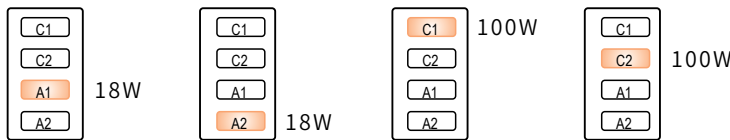
- Interchangeable AC plugs
(Originally with folded US plug; UK, EU, AU convertible)
- CN plug (Non-interchangeable)
- Universal AC input/Full range: 90~264VAC
- Global Certified
- USB-2C2A, 4-port independent output; supports charging of 4 devices at the same time with max. total wattage 100W
- PD/QC 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



(CN-Type)

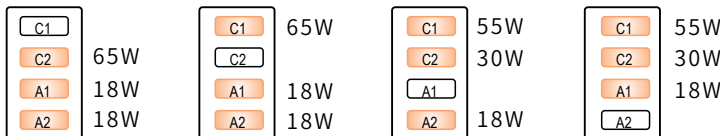
For 1 Port



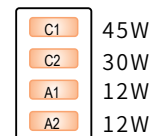
For 2 Ports



For 3 Ports



For 4 Ports



※ The NGE 100 series is under development, expected to be launched in Q4 of 2023.

Application



Earphone
5V



Mobile phone
5V/9V



Tablet
9V/15V



Laptop
20V

OWA Series

60~200W IP67 Moistureproof Industrial Adaptor



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



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>GST18~60 GSM06~60 GEM06~60 GE12~40 SGAS6~60 SGA12~60 GS06 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 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 DC PLUG-P1M-P1MR 2.5x 5.5x 11mm 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 DC PLUG-P1M-P1JR 2.1x 5.5x 11mm 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

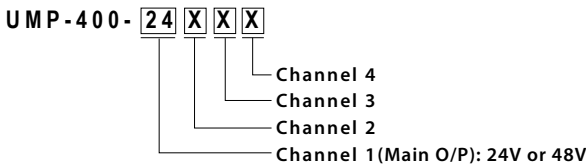


UMP Spec

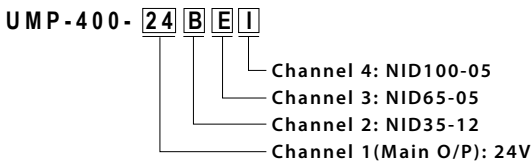
Features

- 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 |



Features

- Universal AC input/Full range: 90~264 VAC
- 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.)

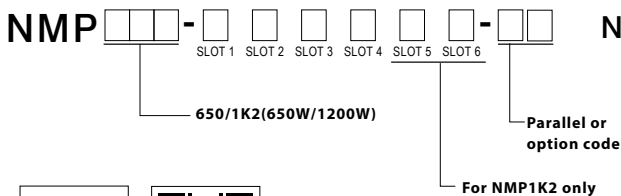
| Item Code | Vout / Iout | Vdc adj. |
|-----------|-------------|----------|
| C | 5V, 0~36A | 3~6V |
| E | 12V, 0~20A | 6~15V |
| H | 24V, 0~10A | 15~30V |
| K | 48V, 0~5A | 30~55V |

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

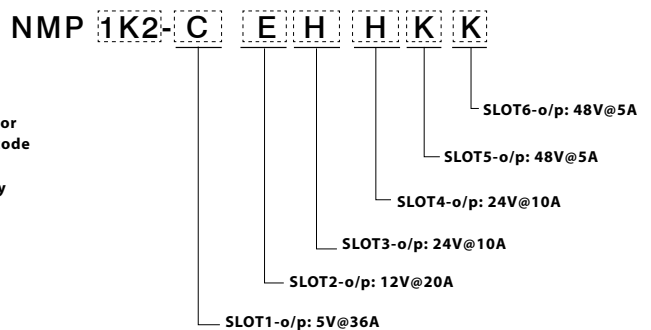
| Item Code | Vout / Iout | Vdc adj. |
|-----------|-------------|----------|
| D | 30V, 0~5A | 3~30V |
| | 30V, 0~5A | 3~30V |

| 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:



■ 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

1000~24000W

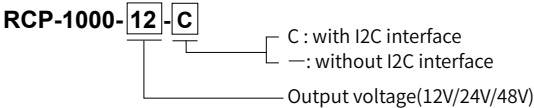


Features

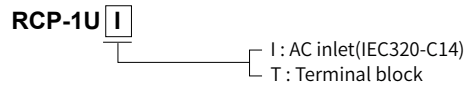
- Universal AC input/Full range: 90~264 VAC
- Built-in active PFC function
- Built-in auxiliary power
- Protections: Short Circuit/Overload/Over Voltage/Over Temp.
- Forced air cooling by built-in DC fan
- High power density up to 25W/inch³
- 1U low profile (41mm height)
- Output voltage and constant 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: 20KW
- Built-in remote ON/OFF control & remote sense function
- **Hot swap support**
- I²C serial data bus selectable; Built-in PMBus serial communication
- AC OK and DC OK signal output
- 5 years warranty

Order Information

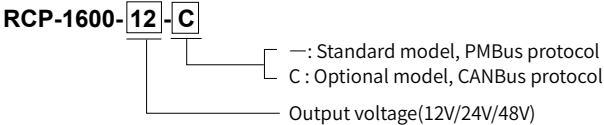
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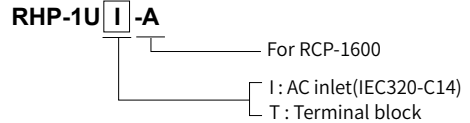
Rack Shelf:



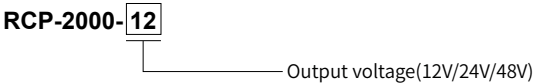
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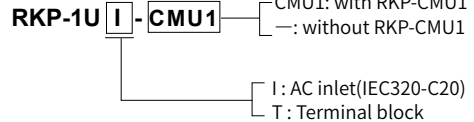
Rack Shelf:



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 |



Standalone type
70x245x164mm(3U)



Rack mount type
70x484x132mm(3U)



Features

- 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

Description



CMU2 is a fully digitalized smart controller that can execute tasks of monitoring and controlling over power system. CMU2 implements a 7" LCD touch panel to achieve intuitive operation, and developed a brand new web monitoring page for faster and smarter management. CMU2 not only being used to monitor the operating parameters and data of PSUs, such as output voltage, output current, internal temperature, fan rpm, series number and firmware version, but also can be used to adjust output voltage and current. In addition, it can remotely control single PSU or entire power system through LAN or internet.

Order Information

CMU2 **A** - **R** - **B** **C** **D**
Slot1 Slot2 Slot3

Extension cards (Note 1)

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

-R: Rackmount type
Blank: Standalone

Application (Note 2)

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

Series name

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



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



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



ENP Spec



ENC Spec

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.64)
- **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 | |



NPB-120
NPB-240
NPB-360



NPB-450
NPB-450-xxNFC



NPB-750



NPB-1200



NPB-1700



NPB Spec

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.64)
- 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



| 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

※ The NPB-450-xxNFC is under development, expected to be launched in Q4 of 2023

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

NPP Series



NPP-450



NPP-750



NPP-1200



NPP-1700



Features

- Universal AC input/Full range: 90~264VAC
- **Charger or power supply constant voltage switchable (plug pin on the panel)**
- **2 times wide voltage output**
- Vout and Iout adjustable by 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 N.B | 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



Spec

RPB/RCB-1600 Features

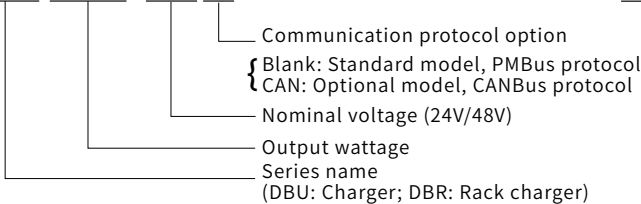
- Universal AC input/Full range: 90~264VAC
- 3 stage charging curves
- Withstand 300VAC surge input for 5 secs.
- Built-in I²C interface, PMBus protocol (CANBus protocol selectable)
- 1U low profile with(41 mm height)
- Rack mountable, sharing up to 8000W (RCB-1600)
- Active current sharing up to 4800W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

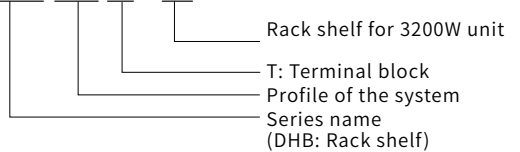
- Universal AC input/Full range: 90~264VAC
- Built-in default 3 stage charging curves and programmable curve, can be set via SBP-001(Detail refer to P.64)
- High efficiency up to 94.5%
- High power density 37W/in³
- Forced air cooling by built-in DC fan
- Vout and lout programmable
- Built-in OR-ing 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

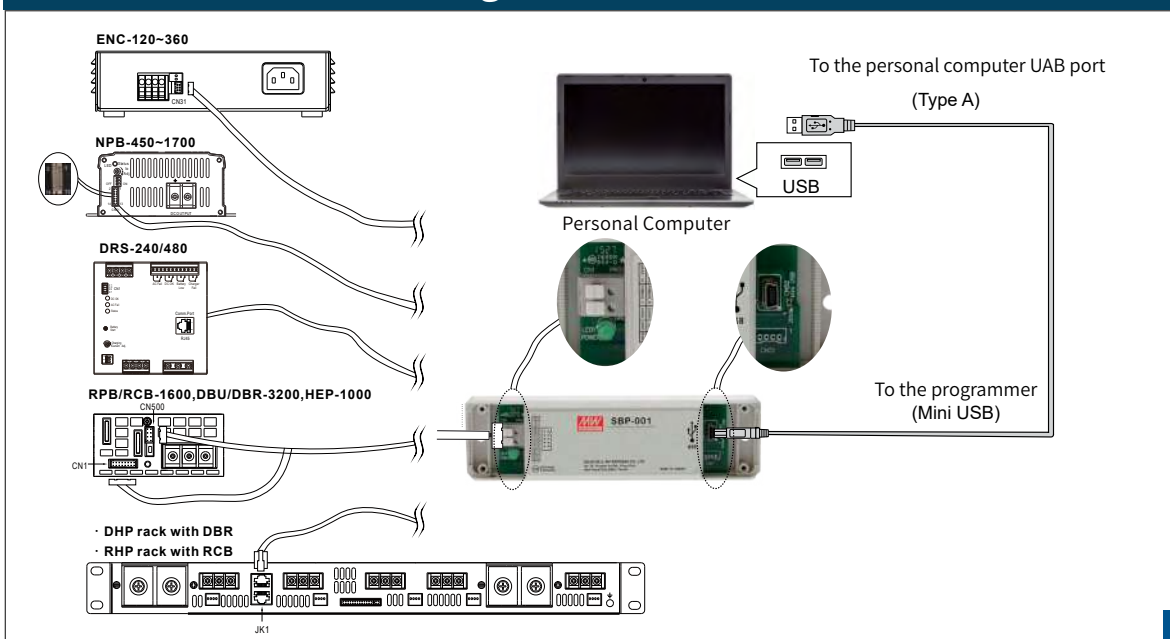
- Charging curve can be programmable when matching with MEAN WELL's Intelligent Battery Chargers
- Suitable for models:
ENC-120/240/360, NPB-450/750/1200/1700, DRS-240/480, HEP-1000, HEP-2300-55, RPB/RCB-1600, DBU/NCP-3200
- Simple connection and configuration
- No need of battery or AC power
- LED status 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/BIC-2200

Harsh Environment & Bidirectional Power Supply



HEP-600C



BIC-2200



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

BIC-2200 Features

- AC↔DC Bidirectional Power Supply
- Full digital design with 93% conversion efficiency for both AC/DC & DC/AC conversion
- 1U low profile
- Ultrafast switching time <1ms (AC/DC ↔ DC/AC)
- Active current sharing up to 11KW (4+1)
- <3% Low THDi in both conversion mode
- Force charging and discharging mode with CANBus model
- Protections: Anti-islanding/AC fail/DC OVP/OLP/OCP/OTP
- 5 years warranty

Models



| Model No. | HEP-600C | BIC-2200-xx□ |
|----------------|----------------|--------------|
| Vout / Iout | 14.4V, 0~35A | 12V, 0~180A |
| | 28.8V, 0~21A | 24V, 0~90A |
| | 57.6V, 0~10.5A | 48V, 0~45A |
| | | 96V, 0~22.5A |
| Dimension (mm) | 280x144x48.5 | 330x140x41 |

□=Blank, CAN Blank: None protocol CAN: CANBus protocol

250~3200W High Reliable True Sine Wave DC-AC Inverter **NTS Series**



| | | | | | |
|---|-------------------------------------|--------------------------|---------------------------|---------------------------|---------------------------------------|
| NTS-250P NTS-400P 186x100.5x32 mm | NTS-300 NTS-450 210x130x55 mm | NTS-750 270x158x67 mm | NTS-1200 333x184x70 mm | NTS-1700 400x184x70 mm | NTS-2200 NTS-3200 420x270x98 mm |
|---|-------------------------------------|--------------------------|---------------------------|---------------------------|---------------------------------------|

Features

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

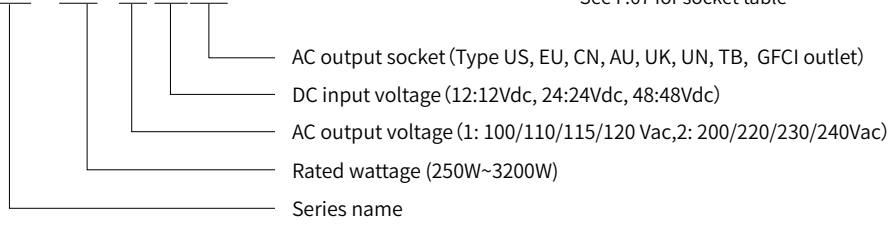
Models



| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Built-in Fan | AC Bypass Function | | | |
|---------------------|----------------|----------------|------------------------------------|---|------------------------------------|--------------------|---|---|---|
| Built-in (PCB Type) | NTS-250P-xxx | 250W | 10~16.5Vdc 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) | X | X | | | |
| | NTS-400P-xxx | 450W | | | | | | | |
| External (Portable) | NTS-300-xxxxy | 300W | | | 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) | √ | X |
| | 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



NTU 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



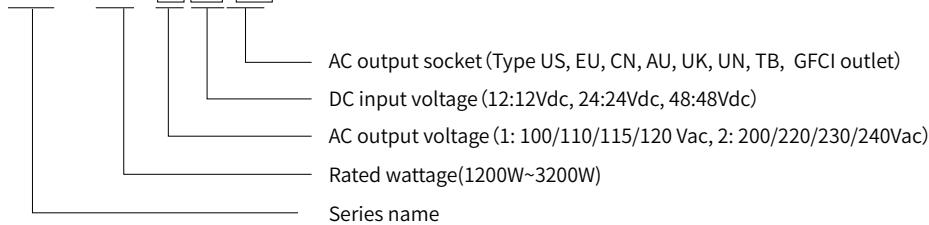
| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Built-in Fan | AC Bypass Function |
|---------------------|-----------------|----------------|------------------------------------|--|--------------|--------------------|
| External (Portable) | NTU-1200-xxxxxy | 1200W | 10~16.5Vdc 20~33Vdc 40~66Vdc | 112, 124, 148 : 110Vac/60HZ 212, 224, 248 : 230Vac/50HZ 100/110/115/120Vac 200/220/230/240Vac | √ | √ |
| | NTU-1700-xxxxxy | 1700W | | | | |
| | NTU-2200-xxxxxy | 2200W | | | | |
| | NTU-3200-xxxxxy | 3200W | | | | |

(4-stage output voltage can be adjusted through DIP S.W)

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

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

TN Series



TN-1500
420x220x88 mm



TN-3000
466.8x283x100 mm



TN 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

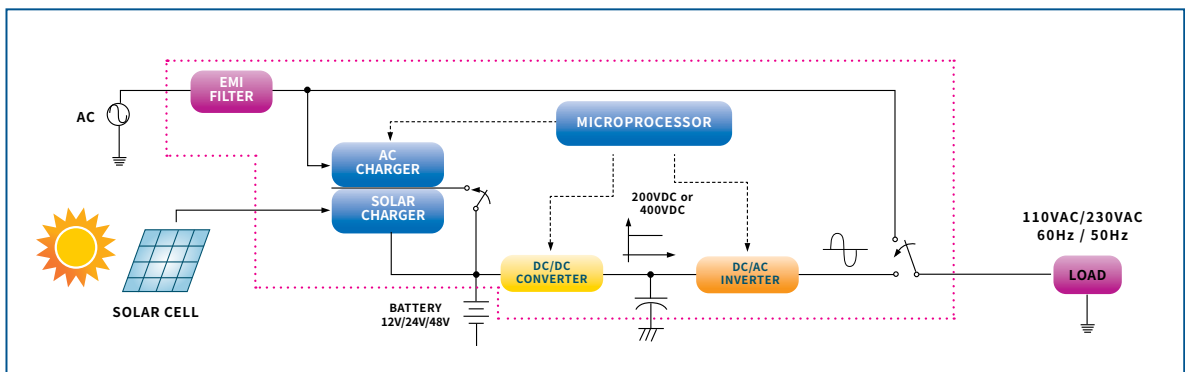


| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Built-in Fan | AC Bypass Function |
|---------------------|----------------|----------------|------------------------------------|---|--------------|--------------------|
| External (Portable) | TN-1500-xxxxxy | 1500W | 10.5~15Vdc 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



NTN Spec

Features

- Combining AC utility, battery power source and solar charger to supply AC output
- 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
- 3 years warranty

Models

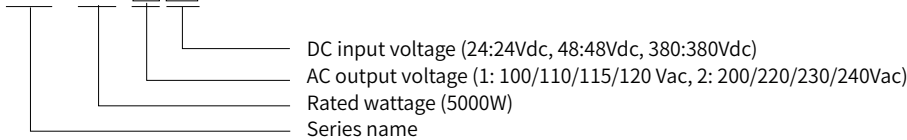


| Installation | Model No. | Continue power | Input(Vdc) | Output(Vac/Hz) | Charger | | AC Bypass Function | AC Output Parallel |
|--------------|------------|----------------|------------------------------------|---|---------|----------|--------------------|--------------------|
| | | | | | AC | MPPT | | |
| 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) |

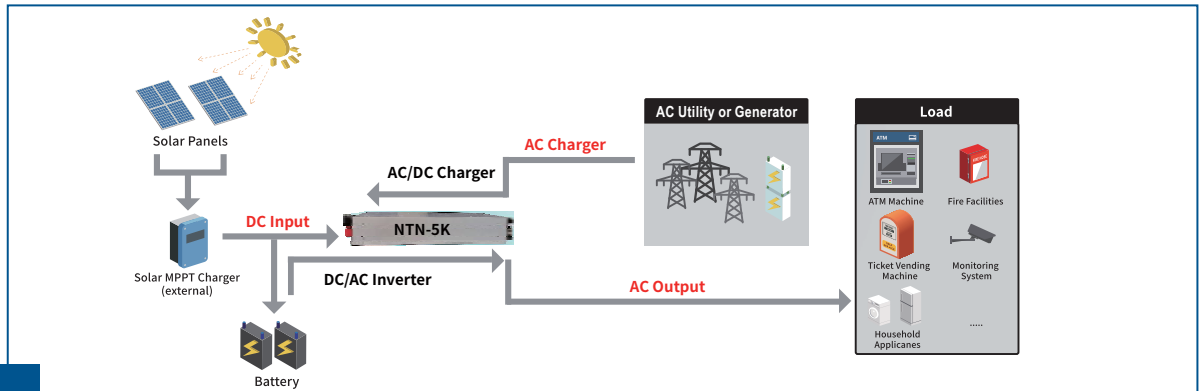
Model Encoding

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

NTN - 5K - 2 24



System Configuration



※ The NTN-5K Series is under development, expected to be launched in Q1 of 2024



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

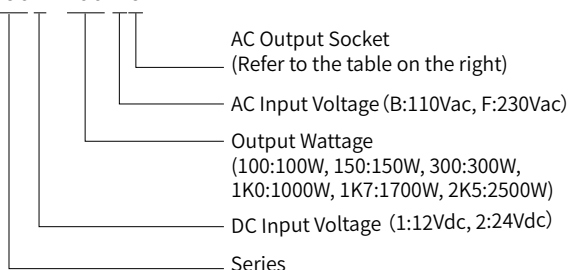


Models

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

ERS/ERG Series

4 CH 1400W Energy Recycling DC Power Supply
4 CH 5000W Energy Recycling Grid Type Power Inverter



ERS Features

- AC/DC Energy Recovery System Power Supply
- Wide input voltage range:
10~60VDC/60~380VDC by models
- Modular design, flexible configuration of aging tests in groups or partitions
- Flexible CC/CV/CP operation modes
- Built-in CANBus communication interface, and can be used with CMU2A for remote monitoring, setting, data analysis and management
- Max. of 64 units ERS-1400 can be connected
- Protections: Over Voltage/Undervoltage/Over Temp./Communication Error
- Aging test system, energy saving & carbon reduction
- 5 years warranty

ERG Features

- DC/AC Grid-connected Energy Recovery Inverter
- Wide input voltage range:
10~60VDC/60~420VDC by models
- Modular design, flexible configuration of aging tests in groups or partitions
- Flexible CC/CV operation modes
- Built-in CANBus communication interface, and can be used with CMU2A for remote monitoring, setting, data analysis and management
- Max. of 64 units ERG-5000 can be connected
- Protections: Over & Undervoltage/Over Temp./Over Power/Grid Fault/Communication Error
- Aging test system, energy saving & carbon reduction
- 5 years warranty

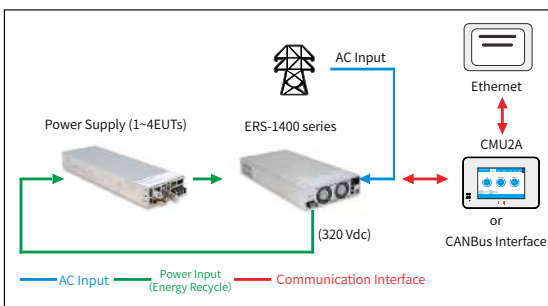


Models

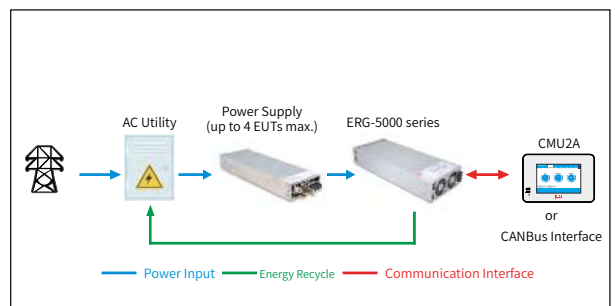
| Model No. | ERS-1400 | ERS-1400H | ERG-5000 | ERG-5000H |
|------------------|----------------|----------------|-------------------------------|-----------|
| DC Input Voltage | 10~60VDC | 60~380VDC | 10~60VDC | 60~420VDC |
| AC Input Voltage | 180~264VAC | | N.A | |
| Vout / Iout | 320VDC, 0~6.3A | 320VDC, 0~6.3A | 180~264VAC, Single Phase ,24A | |

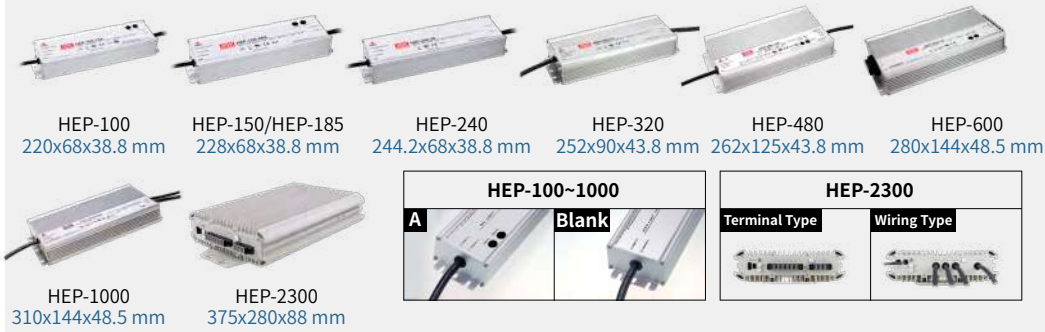
Application Diagram:

ERS-1400(H)



ERG-5000(H)





HEP-100~600 Features

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

HEP-1000~2300 Features

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

Models

IP65 IP67 PMBus IFC CB A cULus ENEC CE UK CA

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

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

□=A or Blank A: Standard model(IP65) Blank: Optional model(IP68)
 ○=Blank, W, H(2300W only) Blank: Terminal type W: Wiring type with IP67 H: Harness connector type

PSC/ADS/AD/ADD Series

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



PSC-35
(3.3"x 2")



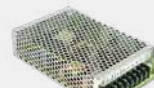
PSC-60
(4"x 2")



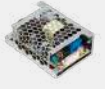
PSC-100
(5"x 3")



PSC-160
(6"x 3")



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



PSC-35x-C



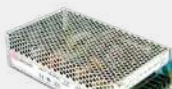
PSC-60x-C



PSC-100x-C



PSC-160x-C



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



Spec

PSC Features

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

ADS/AD/ADD Features

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

Models



| Model No. | Output Number | PSC-35A□ | PSC-35B□ | PSC-60A□ | PSC-60B□ |
|----------------|------------------|--|----------------|--|----------------|
| Vout / Iout | CH1 (Main Power) | 13.8V, 0~2.6A | 27.6V, 0~1.3A | 13.8V, 0~4.3A | 27.6V, 0~2.15A |
| | CH2 (Charging) | 13.8V, 0~0.9A | 27.6V, 0~0.45A | 13.8V, 0~1.5A | 27.6V, 0~0.75A |
| Dimension (mm) | | PCB: 84.6x50.8x24 Enclosed: 86.4x59.6x30 | | PCB: 101.6x50.8x29 Enclosed: 103.4x62x37 | |

| Model No. | Output Number | PSC-100A□ | PSC-100B□ | PSC-160A□ | PSC-160B□ |
|----------------|------------------|---------------------------------------|----------------|---|---------------|
| Vout / Iout | CH1 (Main Power) | 13.8V, 0~7A | 27.6V, 0~3.5A | 13.8V, 0~11.6A | 27.6V, 0~5.8A |
| | CH2 (Charging) | 13.8V, 0~2.5A | 27.6V, 0~1.25A | 13.8V, 0~4A | 27.6V, 0~2A |
| Dimension (mm) | | PCB : 127x76.2x31 Enclosed: 130x85x37 | | PCB : 152.4x76.2x32 Enclosed: 155.4x85x37 | |

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

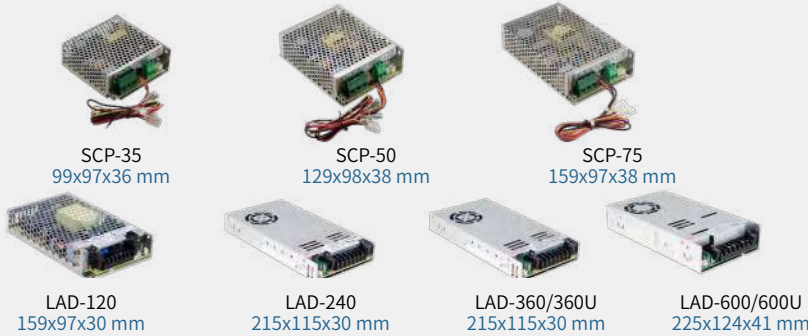
| Model No. | Output Number | ADS-5512 | ADS-5524 | ADS-15512 | ADS-15524 | ADS-15548 |
|-------------|-----------------------|-----------|-------------|--------------|-------------|-------------|
| Vout / Iout | CH1 (Main Power) | 12V, 0~4A | 24V, 0~2.5A | 12V, 0~12.5A | 24V, 0~6.5A | 48V, 0~3.2A |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

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

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

35~75W Single Output Security Power (Enclosed Type)
 120~600W Security/Fire Alarm with UPS Function(Enclosed Type)

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



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: 90~305 VAC
- 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-1280D

W72x H90x D57mm



KAA-8R-16S

KAA-8R-10S

W70x H90x D57mm



KAA-4R4V-10S

W70x H90x D57mm



Spec

KNX Features

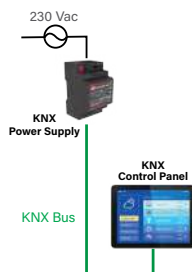
- EIB / KNX power supply with Integrated choke
- 180~264VAC Input
- No load power consumption < 0.5W
- Safety Extra Low Voltage (SELV)
- Isolation class I
- Over voltage category III
- LED indicator for normal operation, bus reset and bus overload
- Compact size
- Protections: Short Circuit/Overload/Over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

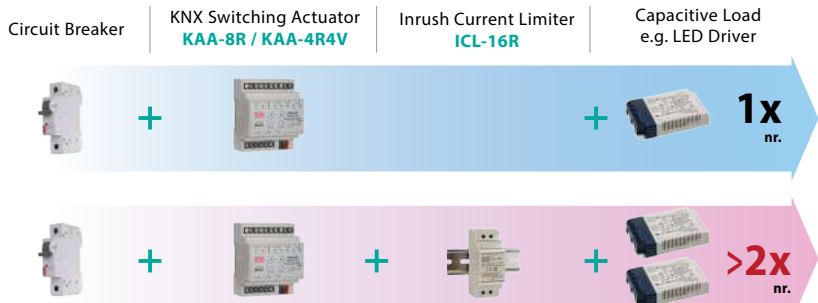
<https://www.meanwell.com>



| | | | | |
|---------------------|------------------------------|--------------------------|----------------|----------------|
| | | | | |
| LED Lamp LED Driver | Dimmable LED Lamp LED Driver | DALI LED Lamp LED Driver | KNX LED Driver | KNX LED Driver |
| KNX Actuator | KNX Dimming Actuator | KNX/DALI Gateway | KNX LED Driver | KNX LED Driver |

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.



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
194x55x20

UHP-200A
167x55x26

ERP-200
200x120x40

ERP-350
220.4x130x48

ERPF-400
220.4x130x48



Spec

LSP/UHP Features

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

ERP Features

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

Models

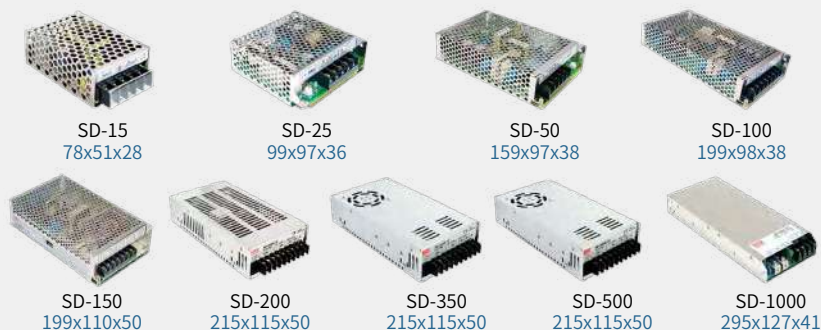


| Model No. | LSP-160□-xx○ | UHP-200A | ERP-200 | ERP-350 | ERPF-400 |
|-------------|--------------|-------------|--------------|--------------|--------------|
| Vin | 100~264VAC | 90~264VAC | 180~264VAC | 180~264VAC | 90~264VAC |
| Vout / Iout | 3.3V, 0~32A | 4.2V, 0~40A | 12V, 0~16.8A | 12V, 0~26.7A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

□ = Blank or R
○ = T or W

Blank: Enclosed
T: For terminal block;

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



Features

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

Models



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

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

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

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

RSD Series

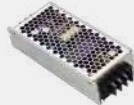
30~500W Railway & ITE DC-DC Converter (Enclosed Type)



RSD-30
113x60x25



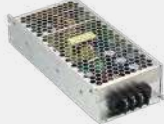
RSD-60
128x60x25



RSD-100
161x68x36



RSD-150
189x77x36



RSD-200
191x86x40



RSD-300
216x96.5x40



RSD-500
237x100x41



RSD Spec

Features

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

Models



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

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

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

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

15~480W Railway & ITE DC-DC Converter (DIN Rail Type)

DDR Series



DDR-15 17.5x90x54.5
DDR-30 35x90x54.5
DDR-60 52.5x90x54.5



DDR-120 32x125.2x102
DDR-240 40x125.2x113.5
DDR-480 85.5x125.2x128.5



DDR 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; Max. 960W/1920W)
- 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 PV/Energy Storage
DC-DC Converter



Spec

DDRH-15 DDRH-15-ST DDRH-15-DR DDRH-60 DDRH-120 DDRH-240 RSDH-150 RSDH-300
 DDRH-30 DDRH-30-ST DDRH-30-DR
 DDRH-45 DDRH-45-ST DDRH-45-DR

■ 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 (Only DDRH-240, **Max. 960W**)
- Operating altitude up to 5000 meters
- OVC II
- DC OK relay contact
- DC output adjustable (+20%, only DDRH-60~240)
- 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 | 85.5x125.2x129.2 |






















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

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

Selection Table of DC-DC Module Type



Selection Table
of DC-DC Module

| Type | Package | Series | | Watt | Vin | Vout | Output Regulation | Isolation voltage | Operating temperature | Dimension (LxWxH) | Certificated | |
|---|-----------------------------|---|---|-----------|--|----------------------------|--------------------------|-------------------|-----------------------|-------------------|---|---|
| | | Picture | Model | | | | | | | | | |
| Medical | SIP |  | MDS01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 3.3V 5V 12V 15V | Unregulated | 6KVDC | -40~+85°C | 0.77"x0.39"x0.49" | UL/EAC/CE/UKCA  | |
| | |  | MDD01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±9V ±12V ±15V | | | | | | |
| | |  | MDS02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | | |
| | |  | MDD02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±9V ±12V ±15V | | | | | | |
| | 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 | | | | | | |
| | |  | MDS06 | 6W | 12V, 24V(9~36V) 24V, 28V(18~75V) | 5V 12V 15V | | | | | | |
| | |  | MDD06 | 6W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | | | | | |
| | 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 | | | | | | |
| | Photovoltaic/Energy Storage | DIP |  | DDRH-15-P | 15W | 150~1500V | 5V 12V 15V 24V | Regulated | 4KVAC | -40~+80°C | 3"x2"x1" | EAC/CE/UKCA   |
| | | |  | DDRH-30-P | 30W | 150~1500V | 12V 15V 24V 48V | | | | | |
|  | | | DDRH-45-P | 45W | 150~1500V | 12V 15V 24V | | | | | | |
|  | | | DDRH-15-TB | 15W | 150~1500V | 5V 12V 15V 24V | | | | | | |
|  | | | DDRH-30-TB | 30W | 150~1500V | 12V 15V 24V 48V | | | | | | |
|  | | | DDRH-45-TB | 45W | 150~1500V | 12V 15V 24V 48V | | | | | | |

Selection Table of DC-DC Module Type



| 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  | |
| | |  | 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" | | EAC/CE/ UKCA  |
| | |  | 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 | | 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 | | | | | | | | |
| | | | N78-C/CW | 3.3~15W | 24V(16~36V) 12V(8~20V) | 12V -12V | | | | | | | | |
| | | | | | 24V(20~36V) 12V(8~18V) | 15V -15V | | | | | | | | |
| | | | | | | | | | | | | | | |
| | SMD | | SPOL-01 | 5.5W | Nom. 12V (3~14V) | Nom.5V (0.9~5.5V programmable) | 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 programmable) |
| | | | | | | | | | | | | | | |
| | | | SMT01 | 1W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 12V 15V | Unregulated | 1.5KVDC | -40~+90°C (-40~+105°C optional) | 0.6"x 0.43"x 0.28" | CB/UL/EAC/CE/UKCA | | | |
| | | | | | | | | | | | | | | |
| | | | SBTN01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 9V 12V 15V | Unregulated | 1.5KVDC | -40~+90°C (-40~+105°C optional) | 0.5"x 0.43"x 0.28" | 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 | Unregulated | 2KVDC | -40~+100°C | 0.5"x 0.43"x 0.28" | CB/UL/EAC/CE/UKCA | | | |
| | | | | | | | | | | | | | | |
| | | | SFTN01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 9V 12V 15V | Unregulated | 3KVDC | -40~+90°C (-40~+105°C optional) | 0.6"x 0.42"x 0.28" | 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 | Unregulated | 3KVDC | -40~+100°C | 0.6"x 0.43"x 0.28" | 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 | Unregulated | 3KVDC | -40~+90°C (-40~+105°C optional) | 0.6"x 0.43"x 0.28" | EAC/CE/UKCA | | | |
| | | | | | | | | | | | | | | |
| | DETN01-N | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | Unregulated | 3KVDC | -40~+100°C | 0.6"x 0.43"x 0.28" | EAC/CE/UKCA | | | | | |
| | | | | | | | | | | | | | | |
| | SFTN02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | Unregulated | 3KVDC | -40~+100°C | 0.6"x 0.43"x 0.28" | EAC/CE/UKCA | | | | | |
| | | | | | | | | | | | | | | |
| | SFTN02-N | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | Unregulated | 3KVDC | -40~+85°C | 0.6"x 0.43"x 0.36" | EAC/CE/UKCA | | | | | |
| | | | | | | | | | | | | | | |
| | DETN02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | Unregulated | 3KVDC | -40~+100°C (-40~+105°C optional) | 0.6"x 0.43"x 0.28" | EAC/CE/UKCA | | | | | |
| | | | | | | | | | | | | | | |
| | DETN02-N | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | Unregulated | 3KVDC | -40~+85°C | 0.6"x 0.43"x 0.36" | 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) | Certified |
|--------------------------------|---------|---|--------|------|--|---------------------------------|-------------------|-------------------|-----------------------|--------------------|---------------------|
| | | Picture | Model | | | | | | | | |
| Telecom / Datacom / Industrial | SIP |  | SMU01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 9V 12V 15V | Unregulated | 1.5KVDC | -40~+90°C | 0.46"x 0.24"x 0.4" | FCC/EAC/ CE/UKCA |
| | |  | SMU02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | |
| | |  | SPU01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | |
| | |  | DPU01 | 1W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | | | | |
| | |  | SPUN02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | |
| | |  | DPUN02 | 2W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | ±5V ±12V ±15V | | | | | |
| | |  | SPU03 | 3W | 5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V) | 5V 12V 15V | | | | | |
| | |  | 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 | | | | | |
| | |  | DPRN01 | 1W | 5V(4.75~5.5V) 12V(11.4~13.2V) 24V(22.8~26.4V) 48V(45.6~52.8V) | ±12V ±15V | | | | | |
| | |  | SPA01 | 1W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 12V 15V | | | | | |
| | |  | SPAN02 | 2W | 5V(4.5~9V) 12V(9~18V) 24V(18~36V) 48V(36~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | DPAN02 | 2W | 5V(4.5~9V) 12V(9~18V) 24V(18~36V) 48V(36~75V) | ±5V ±12V ±15V | | | | | |
| | |  | SPBW03 | 3W | 12V, 24V(9~36V) 24V, 48V(18~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | DPBW03 | 3W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | | | | |
| | |  | SPBW06 | 6W | 12V, 24V(9~36V) 24V, 48V(18~75V) | 3.3V 5V 12V 15V | | | | | |
| | |  | DPBW06 | 6W | 12V, 24V(9~36V) 24V, 48V(18~75V) | ±5V ±12V ±15V | | | | | |
| | |  | SPB09 | 9W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 3.3V 5V 12V 15V 24V | | | | | |
| | |  | DPB09 | 9W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | ±5V ±12V ±15V | | | | | |
| | | | | | | | | | Regulated | 1.5KVDC | -40~+85°C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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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 | 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"x0.39"x0.33" | FCC/EAC/ CE/UKCA |
| | DIP16 |  | 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"x0.39"x0.33" | |
| | 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"x0.4"x0.28" | |
| | DIP16 |  | SLC03 | 3W | 12V (9~18V) 24V (18~36V) 48V (36~75V) | 5V 12V 15V | Regulated | 1.5KVDC | -40~+85°C | 0.87"x0.54"x0.34" | EAC/CE/ UKCA |
| | DIP16 |  | DLC03 | 3W | 12V (9~18V) 24V (18~36V) 48V (36~75V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+85°C | 0.87"x0.54"x0.34" | |
| | 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"x0.8"x0.4" | EAC/CE/ UKCA |
| | |  | DCWN03 | 3W | 5V (4.5~9V) 12V (9~18V) 24V (18~36V) 48V (36~72V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 1.25"x0.8"x0.4" | |
| | |  | SCWN06 | 6W | 12V,(9~18V) 24V,(18~36V) 48V,(36~72V) | 3.3V 5V 12V 15V | | 3KVDC | -40~+90°C | 1.25"x0.8"x0.4" | |
| | |  | DCWN06 | 6W | 12V,(9~18V) 24V,(18~36V) 48V,(36~72V) | ±5V ±12V ±15V | | 3KVDC | -40~+90°C | 1.25"x0.8"x0.4" | |
| | |  | SCW08 | 8W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | 5V 12V 15V | | 1KVDC | -40~+71°C | 1.25"x0.8"x0.48" | FCC/EAC/ CE/UKCA |
| | |  | DCW08 | 8W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | ±5V ±12V ±15V | | 1KVDC | -40~+71°C | 1.25"x0.8"x0.48" | |
| | |  | SCW12 | 12W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | 5V 12V 15V | | 1.5KVDC | -40~+71°C | 1.25"x0.8"x0.48" | |
| | |  | DCW12 | 12W | 12V (9~18V) 24V (18~36V) 48V (36~72V) | ±5V ±12V ±15V | | 1.5KVDC | -40~+71°C | 1.25"x0.8"x0.48" | |
| | |  | SCW20 | 20W | 12V (9~18V) 24V (18~36V) 48V (36~75V) | 5V 12V 15V | | 1.5KVDC | -40~+80°C | 1.25"x0.8"x0.48" | EAC/CE/ UKCA |
| | 1"x1" |  | SKMW06 | 6W | 12V, 24V,(9~36V) 24V, 48V,(18~75V) | 3.3V 5V 9V 12V 15V 24V | Regulated | 1.5KVDC | -40~+85°C | 1"x1"x0.46" | FCC/EAC/ CE/UKCA |
| | |  | DKMW06 | 6W | 12V, 24V,(9~36V) 24V, 48V,(18~75V) | ±5V ±12V ±15V ±24V | | 1.5KVDC | -40~+85°C | 1"x1"x0.46" | |
|  | | SKM10 | 10W | 5V (4.7~9V) 12V (9~18V) 24V (18~36V) 48V (36~75V) | 3.3V 5V 12V 15V | 1.5KVDC | | -40~+85°C | 1"x1"x0.4" | EAC/CE/ UKCA | |
|  | | DKM10 | 10W | 5V (4.7~9V) 12V (9~18V) 24V (18~36V) 48V (36~75V) | ±5V ±12V ±15V | 1.5KVDC | | -40~+85°C | 1"x1"x0.4" | | |



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" |  | SKMW15 | 15W | 12V, 24V,(9~36V) 24V, 48V,(18~75V) | 3.3V 5V 12V 15V | Regulated | 3KVDC | -40~+85°C | 1"x1"x0.4" | EAC/CE/ UKCA |
| | |  | DKMW15 | 15W | 12V, 24V,(9~36V) 24V, 48V,(18~75V) | ±5V ±12V ±15V | | 3KVDC | -40~+85°C | 1"x1"x0.4" | |
| | |  | SKMW20 | 20W | 12V,24V (9~36V) 24V,48V (18~75V) | 3.3V 5V 12V 15V | | 1.5KVDC | -40~+85°C | 1"x1"x0.4" | |
| | |  | DKMW20 | 20W | 12V, 24V (9~36V) 24V, 48V (18~75V) | ±12V ±15V | | 1.5KVDC | -40~+85°C | 1"x1"x0.4" | |
| | |  | SKMW30 | 30W | 12V, 24V (9~36V) 24V, 48V (18~75V) | 3.3V 5V 12V 15V | | 1.5KVDC | -40~+85°C | 1"x1"x0.4" | |
| | |  | DKMW30 | 30W | 12V, 24V (9~36V) 24V, 48V (18~75V) | ±12V ±15V | | 1.5KVDC | -40~+85°C | 1"x1"x0.4" | |
| | 2"x1" |  | SLW05 | 5W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 9V 12V 15V | | 1KVDC | -25~+71°C | 2"x 1"x0.44" | 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"x0.44" | |
| | |  | SKE10 | 10W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 12V 15V 24V | | 1KVDC | -25~+71°C | 2"x 1"x0.44" | |
| | |  | DKE10 | 10W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V ±24V | | 1KVDC | -25~+71°C | 2"x 1"x0.44" | |
| | |  | SKA15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 3.3V 5V 12V 15V | | 1KVDC | -40~+71°C | 2"x 1"x0.44" | |
| | |  | DKA15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±5V | | 1KVDC | -40~+71°C | 2"x 1"x0.44" | |
| | |  | SKA20 | 20W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | | 1.5KVDC | -40~+85°C | 2"x 1"x0.44" | |
| | |  | SKM30 | 30W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | | 1.5KVDC | -40~+75°C | 2"x 1"x0.44" | |
| | |  | SKM30-N | 30W | 12V,24V(9~36V) 24V,48V(18~75V) | 5V 12V 15V | | 3KVDC | -40~+90°C | 2"x 1"x0.44" | |
| | |  | SKM50 | 50W | 24V(18~36V) 48V(36~75V) | 5V 12V 15V | | 1.5KVDC | -40~+75°C | 2"x 1"x0.54" | |
| | 2"x2" |  | SKE15 | 15W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V 12V 15V 24V | | 1KVDC | -25~+71°C | 2"x 2"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"x 2"x0.43" | |
| | |  | DKA30 | 30W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | ±5V ±12V ±15V | | 1KVDC | -40~+85°C | 2"x 2"x0.82" | |
| | |  | TKA30 | 30W | 12V(9~18V) 24V(18~36V) 48V(36~72V) | 5V/±12V 5V/±15V | | 1KVDC | -40~+85°C | 2"x 2"x0.82" | |



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" |  | SKA40 | 40W | 12V(9~18V) 24V(18~36V) 48V(36~75V) | 5V 12V 15V | Regulated | 1.5KVDC | -40~+80°C | 2"x2"x0.43" | FCC/EAC/ CE/UKCA |
| | |  | 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" | | | |
|  | | | 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

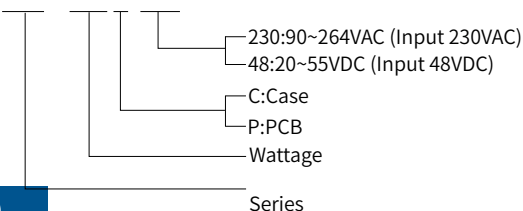


| Model No. | VFD-200C-230 | VFD-350C-230 | VFD-750C-230 |
|----------------|-------------------------------------|--------------|--------------|
| Appearance | Metal Case | | |
| Vin | 90~264VAC | | |
| Watt | 200W | 300W | 750W |
| Vout | 3 Phase UVW, line to line 0~240 VAC | | |
| Dimension (mm) |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

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Various discounts for first order based on membership levels



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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

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01



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- Turn on the bell. So you won't miss any videos



02



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03



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04



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05



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