



*Your Reliable Power Partner*



# ***DIN Rail Power Supply***

*AC/DC Switching Power Supplies*



# Company Profile

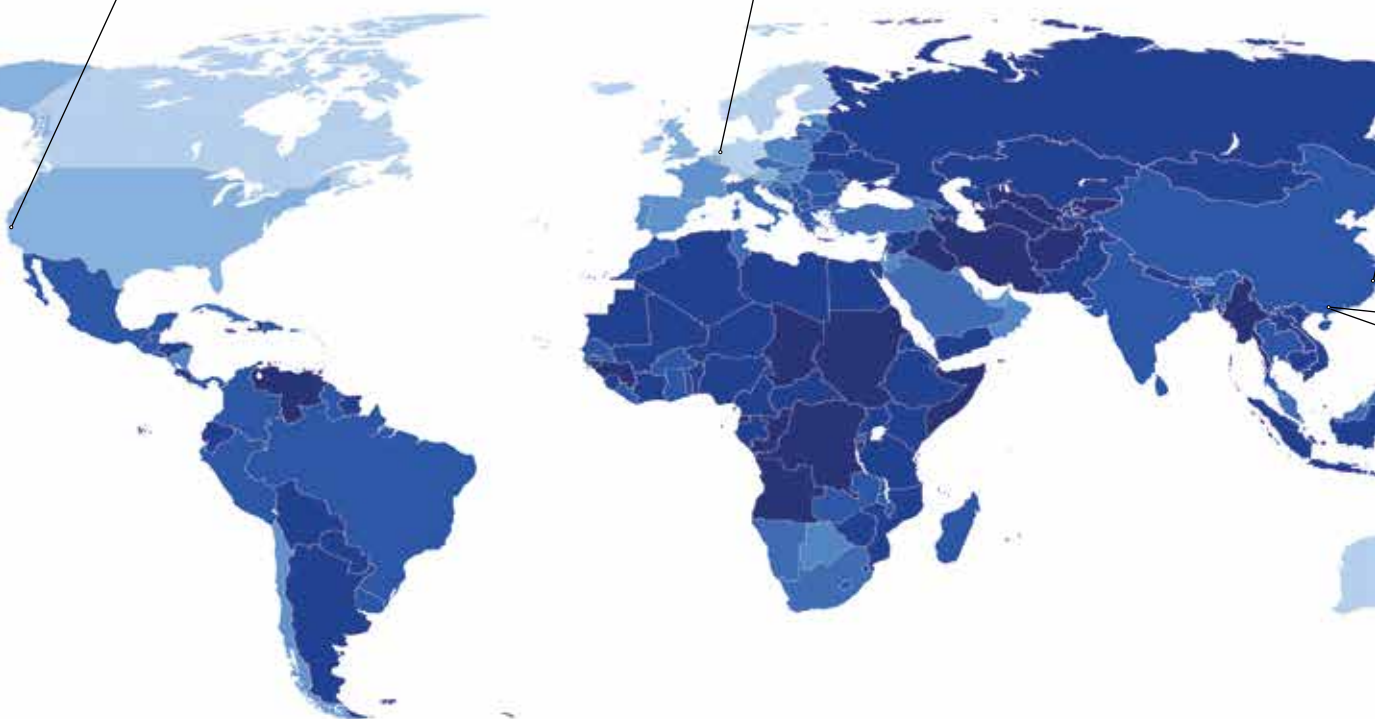
Established in 1982, MEAN WELL is a leading standard switching power supply manufacturers in the world. MEAN WELL currently operates under five companies in Taiwan, China, USA and Europe and three factories in Taiwan, GuangZhou and SuZhou. The product lines include AC/DC switching power supplies, DC/DC converters, waterproof LED drivers, adaptors, DC/AC inverters and battery chargers. We have over 10,000 standard models widely used in medical, automation, communication, LED lighting, display, and office automation fields.

The whole product line of MEAN WELL for DIN rail category has supplied more than 52 series and 165 models ranging from AC/DC power supply 10~960W, DC/DC Converter 15~480W and several supplementary units, covering inrush current limiter , redundancy module , buffer module and DC UPS functions.

MEAN WELL USA



MEAN WELL EUROPE



Besides thorough product categories, another highlight of MEAN WELL products is the complete safety approval, including UL, CUL, TUV, SEMI and GL safety regulations, also passing EN55032 electromagnetic compatibility (EMC) testing for customers to choose.

With more than almost 40 years of experience in R&D and production of standard power supplies, MEAN WELL has twelve product categories covering more than 10,000 models, to provide "One Stop Shopping" power solutions. Every product in the MEAN WELL range is the result of rigid procedures governing design, design verification test (DVT), design quality test (DQT), component selection, pilot-run production, and mass production.

With more than 200 distributors globally, the MEAN WELL products are distributed to over 80 countries worldwide. The small size orders can expect delivery within 24 hours without MOQ requirement. If you are looking for switching power supply with high reliability, good quality, reasonable price and full series products which can satisfy your various demands, MEAN WELL, a total solution provider, is definitely your first choice!

MEAN WELL SUZHOU



MEAN WELL TAIWAN



MEAN WELL GUANGZHOU  
TIANHE R&D CENTER



MEAN WELL GUANGZHOU  
HUADU FACTORY



# Reliable Quality

The brand name "MEAN WELL" is defined as "have good intentions". We strongly believe that the product quality is the life of power supply manufacturer. "To become the reliable power partner" has been the motivation for MEAN WELL to grow continuously.

In 1994, MEAN WELL acquired the ISO9001 certification and began to implement the total quality management (TQM) system, which are audited by TUV annually to continuous review and improvement. In April 2013, MEAN WELL acquired the ISO14000 certification and obtained the OHSAS18001 system (ESH, environmental safety and health) in 2015, to take the concept of environmental protection into action, and expect to create a safe and healthy life.



OHSAS18001



ISO9001



ISO14000

MEAN WELL DIN Rail power supply products comply with UL / CUL / TUV / CB / CE / GL / SEMI certificates, including UL508, UL1310, UL62368-1, TUV EN62368-1, TUV EN61558-1 /-2-16, IEC 62368-1, SEMI F47, GL, EN55011, EN55032.





MEAN WELL has a complete quality management system. To ensure product quality, 100% burn-in test, function test and pressure test have been applied in manufacturing process, while the MIL-105E sampling method used in IQC, PCBQC (semi-finished products testing) and FQC phases. In the R&D stage, MEAN WELL quality engineers customize the "Test Plan" for each product, to complete the verifications of DFMEA, DVT/DQT, ORT, EMC, drop test, vibration test, thermal shock test, and reliability test.

In production stage, the product engineers co-work with process engineers to review the pilot run, semi-finished products quality control, process checking, finished product quality control, and the feedback analysis as well as the production problems occurred.



# Product Range

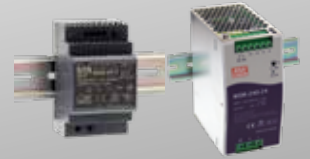


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## AC/DC Power Supply

- 10~960W
- 1 $\phi$ , 2 $\phi$ , 3 $\phi$ , AC input
- 5V~48V
- Class I & II models



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## DC/DC Converter

- 15~480W
- 2:1, 4:1 or 10:1 wide input range
- 3.3~48V
- -40~+85°C ultra-wide operating temp.
- EN50155 railway standard (120W~480W)



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## Supplementary Units

- 16A & 28A AC inrush current limiter
- 20A & 40A redundancy module
- 20A & 40A buffer module
- 40A DC UPS module

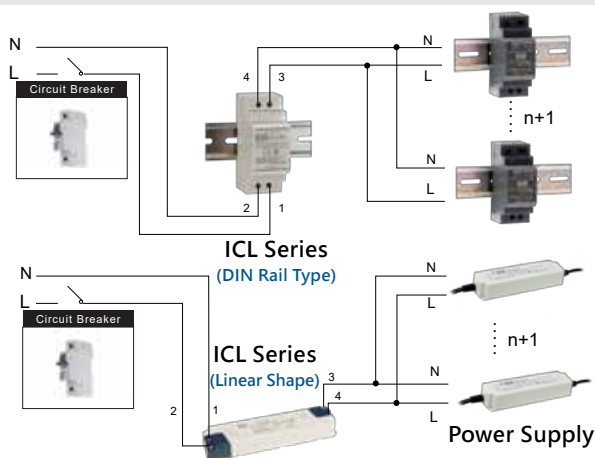


# Supplementary Units

## AC Inrush Current Limiter

### ICL Series

Allow more power supplies and large capacitive loads on the same circuit breaker.



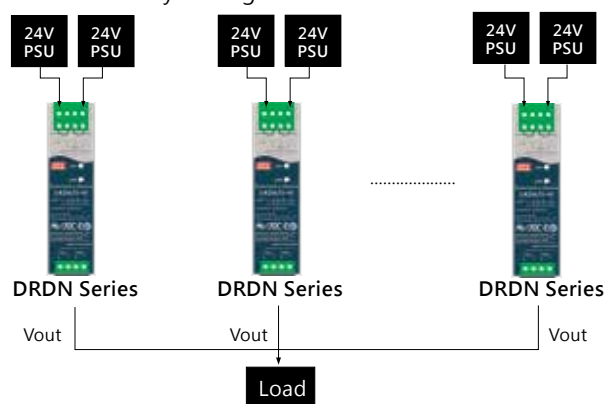
Note: Fewer circuit branches are required to support the same number of power supply installations, reduce system cost.

## Redundancy Module

### DRDN/ERDN/DR-RDN Series

Secure highest reliability and stability in 1+1 or 1+N.

1+N Redundancy : Using 1 more PSU as the redundant unit

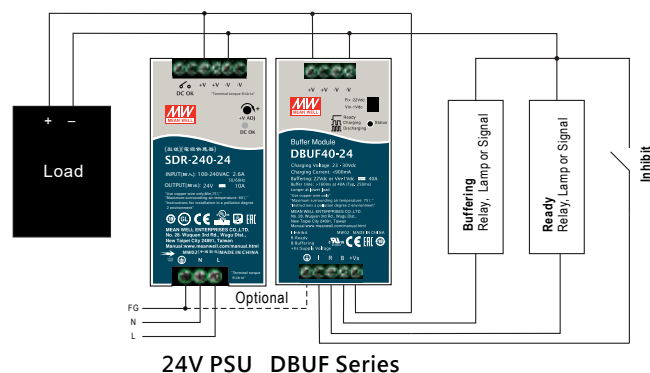


Note: 12V/ 24V/ 48V models are all applicable.

## Buffer Module

### DBUF Series

Extend system hold up time when AC interrupts or fails.

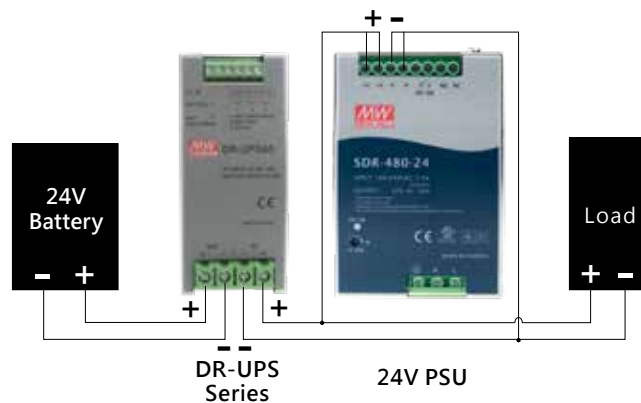


Note: Buffering with internal electrolytic capacitors instead of batteries, saves batteries maintenance cost.

## DC-UPS Module

### DR-UPS Series

Uninterruptible power supply with battery provides long buffer time when AC interrupts or fails.



Note: Buffering with external batteries, can ensure uninterrupted system operation when AC or DC power supply stops providing power.

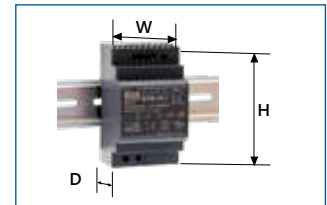
# HDR Series

## Plastic Case — 15~150W Slim Step Shape



### Features

- Isolation class II
- 1SU~6SU narrow width
- 85~264VAC input (277VAC operational)
- No load power consumption <math><0.3W</math>
- Pass LPS (Limited power source)
- DC output voltage adjustable
- Protections : Short circuit / Overload / Over voltage
- Over voltage category III
- Cooling by free air convection
- $-30\sim+70^{\circ}C$  operating temperature
- DIN rail TS-35/7.5 or 15 mountable
- LED indicator for power on
- Suitable for building automation and control of household appliance
- 3 years warranty



Dimension (WxHxD)

|         |                         |
|---------|-------------------------|
| HDR-15  | 17.5(1SU) x 90 x 54.5mm |
| HDR-30  | 35(2SU) x 90 x 54.5mm   |
| HDR-60  | 52.5(3SU) x 90 x 54.5mm |
| HDR-100 | 70(4SU) x 90 x 54.5mm   |
| HDR-150 | 105(6SU) x 90 x 54.5mm  |

### 15W



| Model No. | Output     | Tol.        | R&N   | Effi. |
|-----------|------------|-------------|-------|-------|
| HDR-15-5  | 5V, 2.4A   | $\pm 2.0\%$ | 80mV  | 80%   |
| HDR-15-12 | 12V, 1.25A | $\pm 1.0\%$ | 120mV | 85.5% |
| HDR-15-15 | 15V, 1.0A  | $\pm 1.0\%$ | 120mV | 86.5% |
| HDR-15-24 | 24V, 0.63A | $\pm 1.0\%$ | 150mV | 88%   |
| HDR-15-48 | 48V, 0.32A | $\pm 1.0\%$ | 240mV | 88%   |

### 30W



| Model No. | Output     | Tol.        | R&N   | Effi. |
|-----------|------------|-------------|-------|-------|
| HDR-30-5  | 5V, 3.0A   | $\pm 2.0\%$ | 80mV  | 82%   |
| HDR-30-12 | 12V, 2.0A  | $\pm 1.0\%$ | 120mV | 88%   |
| HDR-30-15 | 15V, 2.0A  | $\pm 1.0\%$ | 120mV | 89%   |
| HDR-30-24 | 24V, 1.5A  | $\pm 1.0\%$ | 150mV | 89%   |
| HDR-30-48 | 48V, 0.75A | $\pm 1.0\%$ | 240mV | 90%   |

### 60W



| Model No. | Output    | Tol.        | R&N   | Effi. |
|-----------|-----------|-------------|-------|-------|
| HDR-60-5  | 5V, 6.5A  | $\pm 2.0\%$ | 80mV  | 85%   |
| HDR-60-12 | 12V, 4.5A | $\pm 1.0\%$ | 120mV | 88%   |
| HDR-60-15 | 15V, 4.0A | $\pm 1.0\%$ | 120mV | 89%   |

| Model No. | Output     | Tol.        | R&N   | Effi. |
|-----------|------------|-------------|-------|-------|
| HDR-60-24 | 24V, 2.5A  | $\pm 1.0\%$ | 150mV | 90%   |
| HDR-60-48 | 48V, 1.25A | $\pm 1.0\%$ | 240mV | 91%   |

### 100W



| Model No.   | Output       | Tol.      | R&N   | Effi. |
|-------------|--------------|-----------|-------|-------|
| HDR-100-12  | 12V, 0~7.1A  | $\pm 2\%$ | 120mV | 88%   |
| HDR-100-12N | 12V, 0~7.5A  | $\pm 2\%$ | 120mV | 88%   |
| HDR-100-15  | 15V, 0~6.13A | $\pm 1\%$ | 120mV | 89%   |
| HDR-100-15N | 15V, 0~6.5A  | $\pm 1\%$ | 120mV | 89%   |
| HDR-100-24  | 24V, 0~3.83A | $\pm 1\%$ | 150mV | 90%   |
| HDR-100-24N | 24V, 0~4.2A  | $\pm 1\%$ | 150mV | 90%   |
| HDR-100-48  | 48V, 0~1.92A | $\pm 1\%$ | 240mV | 90%   |
| HDR-100-48N | 48V, 0~2.1A  | $\pm 1\%$ | 240mV | 90%   |

HDR-100: 92W max., pass LPS  
 HDR-100-xxN: 100W max., non-LPS with a wide output adjustable range

### 150W



| Model No.  | Output     | Tol.      | R&N   | Effi. |
|------------|------------|-----------|-------|-------|
| HDR-150-12 | 12V, 11.3A | $\pm 2\%$ | 100mV | 89%   |
| HDR-150-15 | 15V, 9.5A  | $\pm 1\%$ | 120mV | 89.5% |
| HDR-150-24 | 24V, 6.25A | $\pm 1\%$ | 150mV | 90.5% |
| HDR-150-48 | 48V, 3.2A  | $\pm 1\%$ | 200mV | 90.5% |



# MDR Series

## Plastic Case — 10~96W Ultra Slim



### Features

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



#### Dimension (WxHxD)

|         |                 |
|---------|-----------------|
| MDR-10  | 22.5x 90x 100mm |
| MDR-20  | 22.5x 90x 100mm |
| MDR-40  | 40x 90x 100mm   |
| MDR-60  | 40x 90x 100mm   |
| MDR-100 | 55x 90x 100mm   |

### 10W



| Model No. | Output     | Tol. | R&N   | Effi. |
|-----------|------------|------|-------|-------|
| MDR-10-5  | 5V, 2.0A   | ±5%  | 80mV  | 77%   |
| MDR-10-12 | 12V, 0.84A | ±3%  | 120mV | 81%   |
| MDR-10-15 | 15V, 0.67A | ±3%  | 120mV | 81%   |
| MDR-10-24 | 24V, 0.42A | ±2%  | 150mV | 84%   |

### 20W



| Model No. | Output     | Tol. | R&N   | Effi. |
|-----------|------------|------|-------|-------|
| MDR-20-5  | 5V, 3.0A   | ±2%  | 80mV  | 76%   |
| MDR-20-12 | 12V, 1.67A | ±1%  | 120mV | 80%   |
| MDR-20-15 | 15V, 1.34A | ±1%  | 120mV | 81%   |
| MDR-20-24 | 24V, 1.00A | ±1%  | 150mV | 84%   |

### 40W



| Model No. | Output     | Tol. | R&N   | Effi. |
|-----------|------------|------|-------|-------|
| MDR-40-5  | 5V, 6.00A  | ±2%  | 80mV  | 78%   |
| MDR-40-12 | 12V, 3.33A | ±1%  | 120mV | 86%   |
| MDR-40-24 | 24V, 1.70A | ±1%  | 150mV | 88%   |
| MDR-40-48 | 48V, 0.83A | ±1%  | 200mV | 88%   |

### 60W



| Model No. | Output     | Tol. | R&N   | Effi. |
|-----------|------------|------|-------|-------|
| MDR-60-5  | 5V, 10.0A  | ±2%  | 80mV  | 78%   |
| MDR-60-12 | 12V, 5.00A | ±1%  | 120mV | 86%   |
| MDR-60-24 | 24V, 2.50A | ±1%  | 150mV | 88%   |
| MDR-60-48 | 48V, 1.25A | ±1%  | 200mV | 87%   |

### 96W



| Model No.  | Output    | Tol. | R&N   | Effi. |
|------------|-----------|------|-------|-------|
| MDR-100-12 | 12V, 7.5A | ±1%  | 120mV | 83%   |
| MDR-100-24 | 24V, 4.0A | ±1%  | 150mV | 86%   |
| MDR-100-48 | 48V, 2.0A | ±1%  | 200mV | 87%   |

### HDR vs. MDR

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

# EDR/NDR Series

## Metal Case — 75~480W Slim & Economical



### Features

- 90~264VAC input
- Built-in active PFC function(NDR-240/480)
- High efficiency up to 92.5%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- Operating temperature: -20~+60°C(EDR), -20~+70°C(NDR)
- DC output voltage adjustable
- Can be installed on DIN rail TS-35 / 7.5 or 15
- 3 years warranty (2 years warranty for EDR)



Dimension (WxHxD)

EDR-75 32x 125.2x 102mm      EDR-150 40x 125.2x 113.5mm  
EDR-120 40x 125.2x 113.5mm



Dimension (WxHxD)

NDR-75 32x 125.2x 102mm      NDR-240 63x 125.2x 113.5mm  
NDR-120 40x 125.2x 113.5mm      NDR-480 85.5x 125.2x 128.5mm

### 75W



| Model No. | Output    | Tol.  | R&N   | Effi. |
|-----------|-----------|-------|-------|-------|
| EDR-75-12 | 12V, 6.3A | ±2.0% | 80mV  | 85.5% |
| EDR-75-24 | 24V, 3.2A | ±1.0% | 120mV | 87.5% |
| EDR-75-48 | 48V, 1.6A | ±1.0% | 150mV | 88.5% |

### 75W



| Model No. | Output    | Tol.  | R&N   | Effi. |
|-----------|-----------|-------|-------|-------|
| NDR-75-12 | 12V, 6.3A | ±2.0% | 80mV  | 85.5% |
| NDR-75-24 | 24V, 3.2A | ±1.0% | 150mV | 88.0% |
| NDR-75-48 | 48V, 1.6A | ±1.0% | 240mV | 89.0% |

### 120W



| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| EDR-120-12 | 12V, 10A  | ±2.0% | 100mV | 85.0% |
| EDR-120-24 | 24V, 5.0A | ±1.0% | 120mV | 87.5% |
| EDR-120-48 | 48V, 2.5A | ±1.0% | 150mV | 88.5% |

### 120W



| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| NDR-120-12 | 12V, 10A  | ±2.0% | 100mV | 85.5% |
| NDR-120-24 | 24V, 5.0A | ±1.0% | 120mV | 88.0% |
| NDR-120-48 | 48V, 2.5A | ±1.0% | 150mV | 89.0% |

### 150W



| Model No.  | Output (230VAC/115VAC) | Tol.  | R&N   | Effi. |
|------------|------------------------|-------|-------|-------|
| EDR-150-24 | 24V, 6.5A/5.2A         | ±1.0% | 150mV | 87.0% |

### 240W



| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| NDR-240-24 | 24V, 10A  | ±1.0% | 150mV | 88.5% |
| NDR-240-48 | 48V, 5.0A | ±1.0% | 150mV | 90.0% |

### 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  |

### 480W



| Model No.  | Output   | Tol.  | R&N   | Effi. |
|------------|----------|-------|-------|-------|
| NDR-480-24 | 24V, 20A | ±1.0% | 150mV | 92.5% |
| NDR-480-48 | 48V, 10A | ±1.0% | 150mV | 92.5% |

# SDR Series



## Metal Case — 75~960W Slim & High Performance

### Features

- 90~264VAC input (180~264VAC for SDR-960)
- Built-in active PFC function (SDR-120/240/480/960)
- High efficiency up to **94%**
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- **-30~+70°C** operating temperature
- Can be installed on DIN rail TS-35 / 7.5 or 15
- **Complete functions:**
  - ◆ **130~150% peak load** capability by series
  - ◆ **Current sharing** up to **3840W** (7+1 for SDR-480P, 3+1 for SDR-960)
  - ◆ **DC OK relay contact** (except for SDR-75)
  - ◆ Comply with **GL** (SDR-120~480), **SEMIF47** (SDR-75~960)
- DC output voltage adjustable
- 3 years warranty



#### Dimension (WxHxD)

|          |                      |
|----------|----------------------|
| SDR-75   | 32x 125.2x 102mm     |
| SDR-120  | 40x 125.2x 113.5mm   |
| SDR-240  | 63x 125.2x 113.5mm   |
| SDR-480□ | 85.5x 125.2x 128.5mm |
| SDR-960  | 110x 125.2x 150mm    |

### 75W



| Model No. | Output    | Tol.  | R&N   | Effi. |
|-----------|-----------|-------|-------|-------|
| SDR-75-12 | 12V, 6.3A | ±1.0% | 100mV | 88.5% |
| SDR-75-24 | 24V, 3.2A | ±1.0% | 100mV | 89.0% |
| SDR-75-48 | 48V, 1.6A | ±1.0% | 120mV | 90.0% |

### 120W



| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| SDR-120-12 | 12V, 10A  | ±1.0% | 100mV | 89.0% |
| SDR-120-24 | 24V, 5.0A | ±1.0% | 100mV | 91.0% |
| SDR-120-48 | 48V, 2.5A | ±1.0% | 120mV | 90.5% |

### 240W



| Model No.  | Output    | Tol.  | R&N  | Effi. |
|------------|-----------|-------|------|-------|
| SDR-240-24 | 24V, 10A  | ±1.0% | 50mV | 94.0% |
| SDR-240-48 | 48V, 5.0A | ±1.0% | 50mV | 94.0% |

### 480W



| Model No.   | Output   | Tol.  | R&N   | Effi. |
|-------------|----------|-------|-------|-------|
| SDR-480□-24 | 24V, 20A | ±1.2% | 100mV | 94.0% |
| SDR-480□-48 | 48V, 10A | ±1.0% | 120mV | 94.0% |

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

### 960W



| Model No.  | Output   | Tol.  | R&N   | Effi. |
|------------|----------|-------|-------|-------|
| SDR-960-24 | 24V, 40A | ±1.0% | 180mV | 94.0% |
| SDR-960-48 | 48V, 20A | ±1.0% | 250mV | 94.0% |

# WDR/TDR Series



**Metal Case — 60~480W Slim Wide Input Range / 240~960W Slim 3-phase**

## Features

- AC input range:
  - WDR- 1 $\phi$  and 2 $\phi$ , 180~550VAC ultra-wide input
  - TDR - 3 $\phi$ , 340~550VAC input
- Compact size, narrow width
- Built-in active PFC function (except for WDR-60/120, TDR-240)
- High efficiency up to **94.5%**
- Built-in constant current limiting circuit
- Current sharing** up to **3840W(3+1)** for TDR-960
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Working temperature: **-30~+70°C**
- Built-in DC OK relay contact (optional for TDR-480)
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty



Dimension (WxHxD)

WDR-60 32x 125.2x 102mm      WDR-240 63x 125.2x 113.5mm  
 WDR-120 40x 125.2x 113.5mm      WDR-480 85.5x 125.2x 128.5mm



Dimension (WxHxD)

TDR-240 63x 125.2x 113.5mm      TDR-960 110x 125.2x 150mm  
 TDR-480 85.5x 125.2x 128.5mm

■ 60W cUL US ENEC EAC CE  
UL61010 EN61558

| Model No. | Output     | Tol.  | R&N   | Effi. |
|-----------|------------|-------|-------|-------|
| WDR-60-5  | 5V, 10A    | ±1.5% | 100mV | 84.5% |
| WDR-60-12 | 12V, 5.0A  | ±1.5% | 120mV | 86.5% |
| WDR-60-24 | 24V, 2.5A  | ±1.0% | 150mV | 89.0% |
| WDR-60-48 | 48V, 1.25A | ±1.0% | 200mV | 90.5% |

■ 120W cUL US EAC CB CE  
UL508

| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| WDR-120-12 | 12V, 10A  | ±1.5% | 120mV | 89.5% |
| WDR-120-24 | 24V, 5.0A | ±1.0% | 120mV | 91.0% |
| WDR-120-48 | 48V, 2.5A | ±1.0% | 150mV | 92.0% |

■ 240W PFC UL EAC CB CE  
UL508

| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| WDR-240-24 | 24V, 10A  | ±1.0% | 150mV | 91.0% |
| WDR-240-48 | 48V, 5.0A | ±1.0% | 150mV | 91.0% |

■ 480W PFC UL EAC CB CE  
UL508

| Model No.  | Output   | Tol.  | R&N   | Effi. |
|------------|----------|-------|-------|-------|
| WDR-480-24 | 24V, 20A | ±1.0% | 100mV | 92.0% |
| WDR-480-48 | 48V, 10A | ±1.0% | 150mV | 93.0% |

■ 240W cUL US ENEC EAC CE  
UL61010 EN61558

| Model No.  | Output    | Tol.  | R&N   | Effi. |
|------------|-----------|-------|-------|-------|
| TDR-240-24 | 24V, 10A  | ±1.0% | 100mV | 92.0% |
| TDR-240-48 | 48V, 5.0A | ±1.0% | 120mV | 92.0% |

■ 480W PFC UL EAC CB CE  
UL508

| Model No.  | Output   | Tol.  | R&N   | Effi. |
|------------|----------|-------|-------|-------|
| TDR-480-24 | 24V, 20A | ±1.0% | 150mV | 92.0% |
| TDR-480-48 | 48V, 10A | ±1.0% | 240mV | 92.0% |

■ 960W Parallel PFC UL EAC CB CE  
UL508

| Model No.  | Output   | Tol.  | R&N   | Effi. |
|------------|----------|-------|-------|-------|
| TDR-960-24 | 24V, 40A | ±1.0% | 180mV | 94.0% |
| TDR-960-48 | 48V, 20A | ±1.0% | 250mV | 94.5% |

### WDR vs. TDR

| Series | Difference | AC Input Voltage      |
|--------|------------|-----------------------|
|        | WDR        |                       |
| TDR    |            | 3 $\phi$ ; 340~550VAC |

# DRA/DRC Series

40~100W AC/DC Specific Power Supply

## 40W & 60W Output Current Programmable

### Features

- 90~264VAC input
- **I<sub>o</sub> can be trimmed 10~100% by 1~10Vdc, PWM signal or resistance**
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- -30~+70°C operating temperature
- Pass LPS
- LED indicator for power on
- Can be installed on DIN rail TS-35 / 7.5 or 15
- Suitable for machine vision inspection system and plant cultivation application
- 3 years warranty



### 40W

| Model No. | Output     | Tol.  | R&N   | Effi. |
|-----------|------------|-------|-------|-------|
| DRA-40-12 | 12V, 3.34A | ±1.0% | 120mV | 85%   |
| DRA-40-24 | 24V, 1.7A  | ±1.0% | 150mV | 87%   |

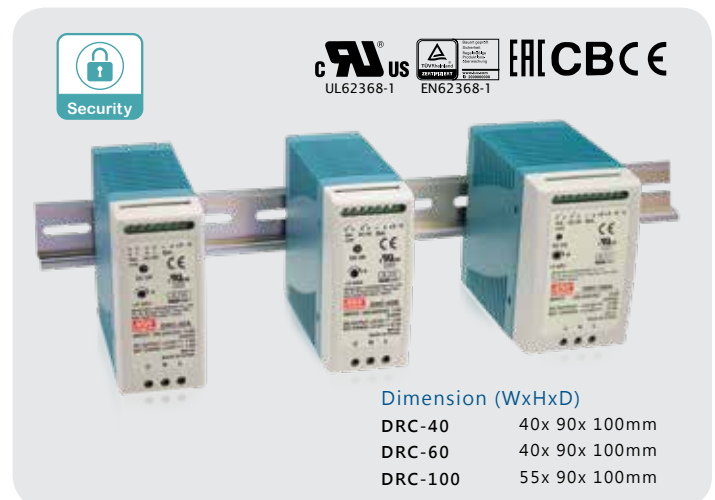
### 60W

| Model No. | Output    | Tol.  | R&N   | Effi. |
|-----------|-----------|-------|-------|-------|
| DRA-60-12 | 12V, 5A   | ±1.0% | 120mV | 85%   |
| DRA-60-24 | 24V, 2.5A | ±1.0% | 150mV | 87%   |

## 40~100W Battery Charger with UPS Security Power

### Features

- 90~264VAC input
- **Single output with battery charger (UPS function)**
- **Alarm signal for AC OK and battery low**
- Protections: Short circuit / Overload / Over voltage / Battery low protection / Battery reverse polarity protection by fuse
- Cooling by free air convection
- Working temperature: -30~+70°C
- Pass LPS (DRC-40/60)
- LED indicator for power on
- Can be installed on DIN rail TS-35/7.5 or 15
- Suitable for security application
- 3 years warranty



### Dimension (WxHxD)

|         |               |
|---------|---------------|
| DRC-40  | 40x 90x 100mm |
| DRC-60  | 40x 90x 100mm |
| DRC-100 | 55x 90x 100mm |

### 60W

| Model No. | Output                 | Tol. | R&N   | Effi. | Max. |
|-----------|------------------------|------|-------|-------|------|
| DRC-60A   | 13.8V, 4.3A            | ±1%  | 120mV | 86%   | 59W  |
|           | 13.8V, 1.5A (Charger)  |      |       |       |      |
| DRC-60B   | 27.6V, 2.15A           | ±1%  | 200mV | 88%   | 59W  |
|           | 27.6V, 0.75A (Charger) |      |       |       |      |

### 100W

| Model No. | Output                 | Tol. | R&N   | Effi. | Max. |
|-----------|------------------------|------|-------|-------|------|
| DRC-100A  | 13.8V, 7A              | ±1%  | 120mV | 87%   | 97W  |
|           | 13.8V, 2.5A (Charger)  |      |       |       |      |
| DRC-100B  | 27.6V, 3.5A            | ±1%  | 240mV | 89%   | 97W  |
|           | 27.6V, 1.25A (Charger) |      |       |       |      |

### 40W

| Model No. | Output                | Tol. | R&N   | Effi. | Max. |
|-----------|-----------------------|------|-------|-------|------|
| DRC-40A   | 13.8V, 2.9A           | ±1%  | 120mV | 86%   | 40W  |
|           | 13.8V, 1.0A (Charger) |      |       |       |      |
| DRC-40B   | 27.6V, 1.45A          | ±1%  | 200mV | 87%   | 40W  |
|           | 27.6V, 0.5A (Charger) |      |       |       |      |

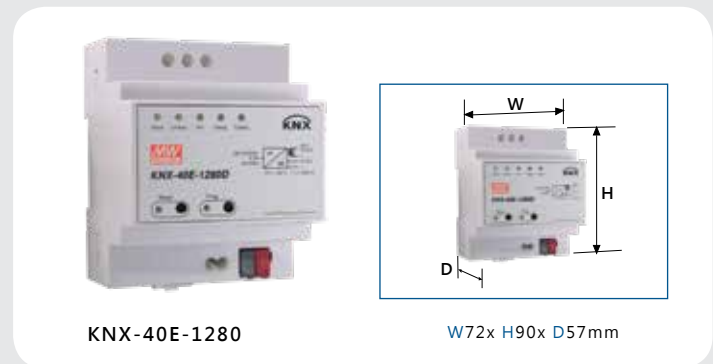
# KNX Series

## 640mA & 1280mA Bus Power Supply



### Features

- EIB / KNX power supply with Integrated choke
- Compact size with 3SU/4SU width
- Safety extra low voltage (SELV)
- 180~264VAC input
- No load power consumption <0.5W
- Protections:
  - Short circuit / Overload (short-circuit-proof) / Over voltage
- Cooling by free air convection
- Isolation class I
- LED indicator for normal operation, bus reset and bus overload
- Over voltage category III
- -30~+70°C operating temperature
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty



■ 20W

SELV ENEC CE KNX

| Model No.   | V <sub>out1</sub><br>(with choke) | V <sub>out2</sub><br>(without choke) | I <sub>out</sub><br>(I <sub>1</sub> +I <sub>2</sub> ) |
|-------------|-----------------------------------|--------------------------------------|---|
| KNX-20E-640 | Bus, 30VDC                        | 30VDC                                | 640mA   |

■ 40W

SELV ENEC CE KNX DEKRA

| Model No.  | V <sub>out1</sub><br>(with choke) | V <sub>out2</sub><br>(without choke) | I <sub>out</sub><br>(I <sub>1</sub> +I <sub>2</sub> ) |
|--|-----------------------------------|--------------------------------------|---|
| KNX-40E-1280 <input type="checkbox"/> <input type="checkbox"/> | Bus, 30VDC                        | 30VDC                                | 1280mA  |

: Blank, D ; Blank= Basic function, D=Diagnostic function

### Applications



# DDR Series

## 15~60W DC/DC Converter



### Features

- **Compact size** with 1SU~3SU width
- **4:1** wide input range
- Protections: Short circuit / Overload / Over voltage / **Input reverse polarity** / **Input under voltage**
- Cooling by free air convection
- 4000VDC I/O isolation (**Reinforced isolation**)
- **-40~+85°C** ultra-wide operating temperature
- DC output adjustable ( $\pm 10\%$ )
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty



#### Dimension (WxHxD)

|        |                  |
|--------|------------------|
| DDR-15 | 17.5x 90x 54.5mm |
| DDR-30 | 35x 90x 54.5mm   |
| DDR-60 | 52.5x 90x 54.5mm |

### 15W

| Model No.   | Vin     | Vout   | Iout  | R&N   | Effi. |
|-------------|---------|--------|-------|-------|-------|
| DDR-15G-3.3 | 9~36Vdc | 3.3Vdc | 3.5A  | 50mV  | 84%   |
| DDR-15G-5   | 9~36Vdc | 5Vdc   | 3A    | 50mV  | 84%   |
| DDR-15G-12  | 9~36Vdc | 12Vdc  | 1.25A | 60mV  | 85%   |
| DDR-15G-15  | 9~36Vdc | 15Vdc  | 1A    | 75mV  | 85%   |
| DDR-15G-24  | 9~36Vdc | 24Vdc  | 0.63A | 100mV | 86%   |

|             |          |        |       |       |     |
|-------------|----------|--------|-------|-------|-----|
| DDR-15L-3.3 | 18~75Vdc | 3.3Vdc | 4.5A  | 50mV  | 84% |
| DDR-15L-5   | 18~75Vdc | 5Vdc   | 3A    | 50mV  | 85% |
| DDR-15L-12  | 18~75Vdc | 12Vdc  | 1.25A | 60mV  | 86% |
| DDR-15L-15  | 18~75Vdc | 15Vdc  | 1A    | 75mV  | 86% |
| DDR-15L-24  | 18~75Vdc | 24Vdc  | 0.63A | 100mV | 87% |

### 30W

| Model No.  | Vin     | Vout  | Iout  | R&N   | Effi. |
|------------|---------|-------|-------|-------|-------|
| DDR-30G-5  | 9~36Vdc | 5Vdc  | 6A    | 60mV  | 85%   |
| DDR-30G-12 | 9~36Vdc | 12Vdc | 2.5A  | 75mV  | 86%   |
| DDR-30G-15 | 9~36Vdc | 15Vdc | 2A    | 75mV  | 87%   |
| DDR-30G-24 | 9~36Vdc | 24Vdc | 1.25A | 100mV | 89%   |

### 30W

|            |          |       |       |       |     |
|------------|----------|-------|-------|-------|-----|
| DDR-30L-5  | 18~75Vdc | 5Vdc  | 6A    | 60mV  | 86% |
| DDR-30L-12 | 18~75Vdc | 12Vdc | 2.5A  | 75mV  | 89% |
| DDR-30L-15 | 18~75Vdc | 15Vdc | 2A    | 75mV  | 90% |
| DDR-30L-24 | 18~75Vdc | 24Vdc | 1.25A | 100mV | 91% |

### 60W

| Model No.  | Vin     | Vout  | Iout  | R&N   | Effi. |
|------------|---------|-------|-------|-------|-------|
| DDR-60G-5  | 9~36Vdc | 5Vdc  | 10.8A | 60mV  | 87.5% |
| DDR-60G-12 | 9~36Vdc | 12Vdc | 5A    | 75mV  | 91%   |
| DDR-60G-15 | 9~36Vdc | 15Vdc | 4A    | 75mV  | 91%   |
| DDR-60G-24 | 9~36Vdc | 24Vdc | 2.5A  | 100mV | 91%   |

|            |          |       |      |       |       |
|------------|----------|-------|------|-------|-------|
| DDR-60L-5  | 18~75Vdc | 5Vdc  | 12A  | 60mV  | 87.5% |
| DDR-60L-12 | 18~75Vdc | 12Vdc | 5A   | 75mV  | 91%   |
| DDR-60L-15 | 18~75Vdc | 15Vdc | 4A   | 75mV  | 92%   |
| DDR-60L-24 | 18~75Vdc | 24Vdc | 2.5A | 100mV | 92%   |

# DDR Series

## 120~480W DC/DC Converter



### Features

- ITE & Railway safety
- 2:1 wide input range
- **150% peak** load capability
- Protections:  
Short circuit / Overload / Over voltage /  
Over temperature / **DC Input reverse polarity** /  
**DC Input under voltage**
- Cooling by free air convection
- 4000VDC I/O isolation (**Reinforced isolation**)
- **-40~+70°C** wide operating temperature
- DC output adjustable
- DC OK relay contact and Remote ON/OFF (DDR-240/480 only)
- **Current sharing** up to **1920W**  
(**3+1: 960W** for DDR-240, **1920W** for DDR-480)
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty



Dimension (WxHxD)

|         |                      |
|---------|----------------------|
| DDR-120 | 32x 125.2x 102mm     |
| DDR-240 | 40x 125.2x 113.5mm   |
| DDR-480 | 85.5x 125.2x 128.5mm |

### 120W

| Model No.   | Vin          | Vout  | Iout | R&N  | Effi. |
|-------------|--------------|-------|------|------|-------|
| DDR-120A-12 | 9~18Vdc      | 12Vdc | 8.3A | 50mV | 88.5% |
| DDR-120A-24 | 9~18Vdc      | 24Vdc | 4.2A | 50mV | 88.5% |
| DDR-120A-48 | 9~18Vdc      | 48Vdc | 2.1A | 50mV | 88.5% |
| DDR-120B-12 | 16.8~33.6Vdc | 12Vdc | 10A  | 50mV | 89.0% |
| DDR-120B-24 | 16.8~33.6Vdc | 24Vdc | 5A   | 50mV | 89.5% |
| DDR-120B-48 | 16.8~33.2Vdc | 48Vdc | 2.5A | 50mV | 91.0% |
| DDR-120C-12 | 33.6~67.2Vdc | 12Vdc | 10A  | 50mV | 89.5% |
| DDR-120C-24 | 33.6~67.2Vdc | 24Vdc | 5A   | 50mV | 91.0% |
| DDR-120C-48 | 33.6~67.2Vdc | 48Vdc | 2.5A | 50mV | 92.0% |
| DDR-120D-12 | 67.2~154Vdc  | 12Vdc | 10A  | 50mV | 89.5% |
| DDR-120D-24 | 67.2~154Vdc  | 24Vdc | 5A   | 50mV | 91.0% |
| DDR-120D-48 | 67.2~154Vdc  | 48Vdc | 2.5A | 50mV | 91.5% |

### 240W

| Model No.   | Vin          | Vout  | Iout | R&N   | Effi. |
|-------------|--------------|-------|------|-------|-------|
| DDR-240B-24 | 16.8~33.6Vdc | 24Vdc | 10A  | 80mV  | 90.0% |
| DDR-240B-48 | 16.8~33.2Vdc | 48Vdc | 5A   | 100mV | 90.0% |
| DDR-240C-24 | 33.6~67.2Vdc | 24Vdc | 10A  | 80mV  | 91.0% |
| DDR-240C-48 | 33.6~67.2Vdc | 48Vdc | 5A   | 100mV | 92.0% |
| DDR-240D-24 | 67.2~154Vdc  | 24Vdc | 10A  | 80mV  | 92.0% |
| DDR-240D-48 | 67.2~154Vdc  | 48Vdc | 5A   | 100mV | 92.5% |

### 480W

| Model No.   | Vin          | Vout  | Iout | R&N   | Effi. |
|-------------|--------------|-------|------|-------|-------|
| DDR-480B-12 | 16.8~33.6Vdc | 12Vdc | 35A  | 100mV | 90%   |
| DDR-480B-24 | 16.8~33.6Vdc | 24Vdc | 20A  | 120mV | 91%   |
| DDR-480B-48 | 16.8~33.6Vdc | 48Vdc | 10A  | 150mV | 91%   |
| DDR-480C-12 | 33.6~67.2Vdc | 12Vdc | 35A  | 100mV | 91%   |
| DDR-480C-24 | 33.6~67.2Vdc | 24Vdc | 20A  | 120mV | 92%   |
| DDR-480C-48 | 33.6~67.2Vdc | 48Vdc | 10A  | 150mV | 92%   |
| DDR-480D-12 | 67.2~154Vdc  | 12Vdc | 35A  | 100mV | 91%   |
| DDR-480D-24 | 67.2~154Vdc  | 24Vdc | 20A  | 120mV | 92%   |
| DDR-480D-48 | 67.2~154Vdc  | 48Vdc | 10A  | 150mV | 93%   |



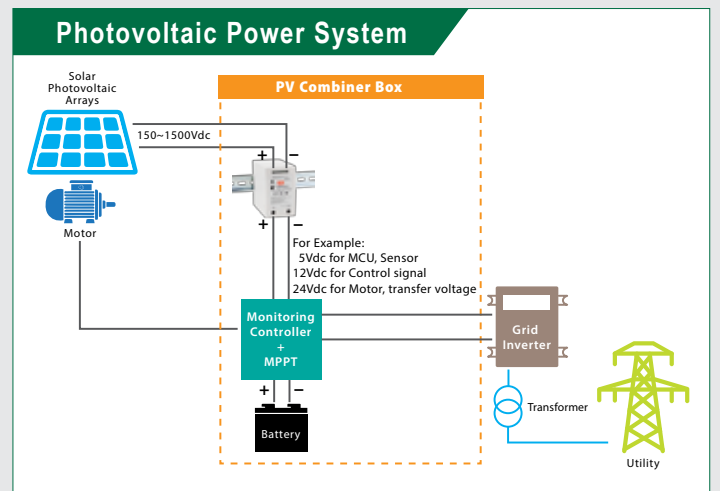
# DDRH/ICL Series



## 60W Ultra Wide Input DC/DC Converter

### Features

- 150~1500Vdc 10:1 ultra-wide input range
- Potted with silicone, dust and moisture proof
- 4KVac I/O high isolation (Reinforced isolation)
- Protections: Short circuit / Overload / Over voltage / Over temp. / DC input under voltage / DC input reverse polarity
- Cooling by free air convection
- -30~+80°C wide operating temp. (> +55°C de-rating)
- Over voltage category II
- Operating altitude up to 5000 meters
- DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- DC output voltage adjustable
- IEC62109-1 (LVD) approved
- Suitable for photovoltaic power generation, 380Vdc DC power distribution system or high voltage converter to low voltage
- 3 years warranty



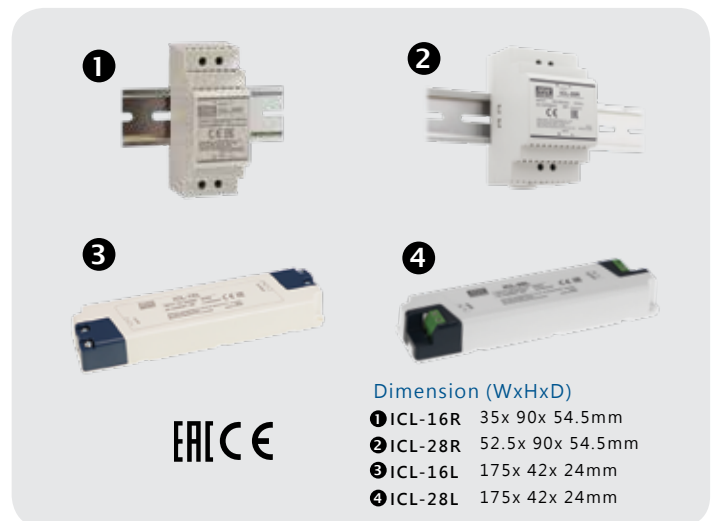
### 60W

| Model No.  | Vin         | Vout | Iout  | R&N   | Effi. |
|------------|-------------|------|-------|-------|-------|
| DDRH-60-5  | 150~1500Vdc | 5V   | 10A   | 100mV | 81%   |
| DDRH-60-12 | 150~1500Vdc | 12V  | 5A    | 120mV | 85%   |
| DDRH-60-24 | 150~1500Vdc | 24V  | 2.5A  | 150mV | 87%   |
| DDRH-60-48 | 150~1500Vdc | 48V  | 1.25A | 200mV | 88%   |

## 16A & 28A AC Inrush Current Limiter

### Features

- R: DIN Rail type or L: terminal block mounted
- ICL-16: 23A inrush current limiting, 16A continuous
- ICL-28: 48A inrush current limiting, 28A continuous
- Integrated by pass relay, no simple NTC
- Internal thermal protection
- -30~+70°C wide operating temperature
- Over voltage category III
- Operating altitude up to 5000 meters



### 28A (ICL-28R/L)

| Model No. | Inrush Current | Input      |
|-----------|----------------|------------|
| ICL-28R   | 28A            | 180~264Vac |
| ICL-28L   | 28A            | 180~264Vac |

### 16A (ICL-16R/L)

| Model No. | Inrush Current | Input      |
|-----------|----------------|------------|
| ICL-16R   | 16A            | 180~264Vac |
| ICL-16L   | 16A            | 180~264Vac |

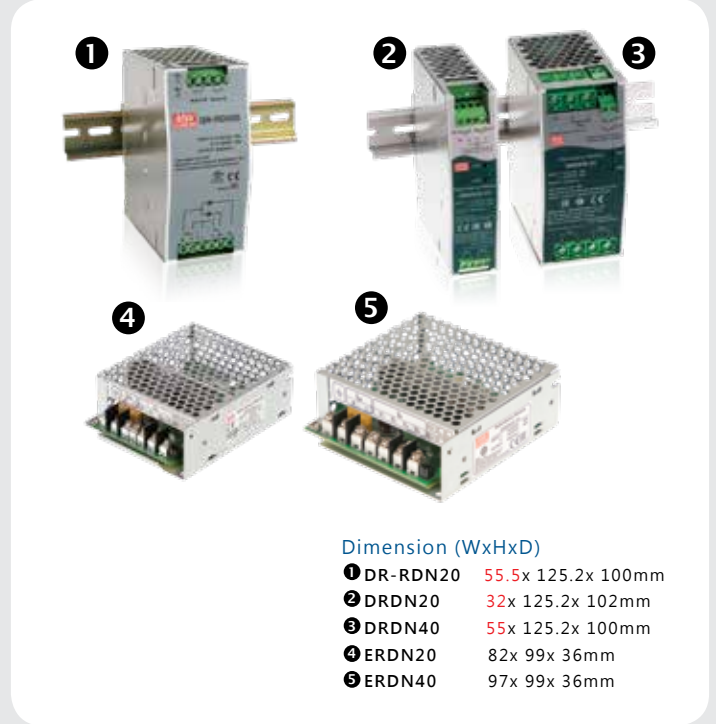
# DRDN/DR-RDN series

## 20A & 40A Redundancy Module

DRDN-20/40, ERDN20/40 and DR-RDN20 series are 20A/40A power supply redundancy modules, which can be used with the backup power supply to improve the stability and reliability of the overall system.

### Features

- Output current 20A & 40A
- Support **1+1 and N+1 redundancy** system
- Suitable for redundancy operation of 5V/12V/24V/48V system
- 2 channels DC input and 1 channel DC input
- 2 channels **DC OK relay contact**
- **-40~+80°C** ultra wide operating temperature
- **2 dry relay contact** for monitoring output status, and LED indicator for input failure alarm
- 3 years warranty



| Model No. | Nominal Voltage | Input / Output Current |
|-----------|-----------------|------------------------|
| DR-RDN20  | 24V, 20A        | 2x10A / 20A            |



| Model No.                        | Nominal Voltage | Input / Output Current |
|----------------------------------|-----------------|------------------------|
| DRDN20- <input type="checkbox"/> | 12V, 24V, 48V   | 2x10A / 20A            |

= 12, 24, 48



| Model No.                        | Nominal Voltage | Input / Output Current |
|----------------------------------|-----------------|------------------------|
| DRDN40- <input type="checkbox"/> | 12V, 24V, 48V   | 2x20A / 40A            |

= 12, 24, 48



| Model No.                        | Nominal Voltage   | Input / Output Current |
|----------------------------------|-------------------|------------------------|
| ERDN20- <input type="checkbox"/> | 5V, 12V, 24V, 48V | 2x10A / 20A            |

= 5, 12, 24, 48



| Model No.                        | Nominal Voltage | Input / Output Current |
|----------------------------------|-----------------|------------------------|
| ERDN40- <input type="checkbox"/> | 12V, 24V, 48V   | 2x20A / 40A            |

= 12, 24, 48

### DR-RDN20 vs. DRDN&ERDN

| Series    | Difference        | Generation | Output Current | System Voltage          | Working Temp. | Case Size               |
|-----------|-------------------|------------|----------------|-------------------------|---------------|-------------------------|
| DR-RDN20  |                   | Old        | 20A            | 24V                     | -40~+70°C     | 20A: 55.5x 125.2x 100mm |
| DRDN20/40 |                   | New        | 20A/40A        | 12V, 24V, 48V           | -40~+80°C     | 20A: 32x 125.2x 102mm   |
| ERDN20/40 | 5V, 12V, 24V, 48V |            |                | 40A: 55.5x 125.2x 100mm |               |                         |

# DBUF/DR-UPS40



## 20A & 40A Buffer Module

DBUF20/40 buffer modules are supplementary devices for regulated DC 24V power supplies. The buffer module utilizes maintenance-free electrolytic capacitors to store energy, thus eliminates the need of periodic replacement as compared to costlier batteries which also have shorter functional life span.



### Features

- Buffering with **electrolytic capacitors instead of battery**, save maintenance cost
- Suitable for 24Vdc systems
- Buffering time: **350ms@20A load; 250ms@40A load**
- Buffer mode selectable by switch :  
Fixed mode at 22Vdc or dynamic mode for Vin-1V
- Support parallel connection to extend buffering time
- -25~+75°C operating temperature
- 3 years warranty

| Model No. | DC Operating Voltage Range | Buffer Time |
|-----------|----------------------------|-------------|
| DBUF20-24 | 22~29Vdc                   | 350ms@20A   |
|           |                            | 700ms@10A   |
|           |                            | 45s@0.1A    |
| DBUF40-24 | 22~29Vdc                   | 250ms@40A   |
|           |                            | 500ms@20A   |
|           |                            | 42s@0.1A    |

## 40A DC UPS Module

DR-UPS40 is a 40A max. DC UPS (battery control) module for the 24VDC power system. Accompany with external batteries, it can back-up up to 40A of current to critical loads for certain period of time depending on the capacity of batteries. With complete monitoring signals / LED indicators for DC BUS OK, Battery Fail, Battery Discharge, and the repeated Battery Test function, users can customize their own DC UPS system to back up critical loads and capture the status of the whole system easily.



### Features








- Battery controller for DIN rail **UPS system, parallel connected to DC BUS**
- Suitable for 24V system up to 40A
- Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK, Battery Fail, and Battery Discharge
- -20~+70°C operating temperature
- 3 years warranty

| Model No. | DC BUS Voltage | DC BUS Current |
|-----------|----------------|----------------|
| DR-UPS40  | 24~29Vdc       | 40A max.       |







# Selection Guide

## AC/DC










| Picture  | Model    | Power (W) | PFC | Input voltage (Vac) | Output voltage (Vdc) | Dimension (mm)       | Key features  | Page |
|--|----------|-----------|-----|---------------------|----------------------|----------------------|---|------|
|    | HDR-15   | 15        | -   | 85~277              | 5, 12, 15, 24, 48    | 17.5 x 90 x 54.5     | <br>Class II<br>Slim <b>step shape</b>   | 7    |
|  | HDR-30   | 30        |     |                     |                      | 35 x 90 x 54.5       |   |      |
|  | HDR-60   | 60        |     |                     |                      | 52.5 x 90 x 54.5     |   |      |
|  | HDR-100  | 100       |     |                     | 12, 15, 24, 48       | 70 x 90 x 54.5       |   |      |
|  | HDR-150  | 150       |     |                     | 105 x 90 x 54.5      |                      |   |      |
|   | MDR-10   | 10        | -   | 85~264              | 5, 12, 15, 24        | 22.5 x 90 x 100      | <br>Class I<br>DC OK<br>Class I<br>Div 2 / HL<br>(MDR-40/60)   | 8    |
|  | MDR-20   | 20        |     |                     |                      | 40 x 90 x 100        |   |      |
|  | MDR-40   | 40        |     |                     | 5, 12, 24, 48        | 55 x 90 x 100        |   |      |
|  | MDR-60   | 60        |     |                     |                      |                      |   |      |
|  | MDR-100  | 96        |     |                     |                      | 12, 24, 48           |   |      |
|  | EDR-75   | 75        | -   | 90~264              | 12, 24, 48           | 32 x 125.2 x 102     | <br>Class I<br>Slim & <b>Low cost</b>  | 9    |
|  | EDR-120  | 120       |     |                     |                      | 40 x 125.2 x 113.5   |   |      |
|  | EDR-150  | 150       |     |                     | 24                   |                      |   |      |
|  | NDR-75   | 75        | -   | 90~264              | 12, 24, 48           | 32 x 125.2 x 102     | <br>Class I<br>Slim & <b>Economical</b>  | 9    |
|  | NDR-120  | 120       |     |                     |                      | 40 x 125.2 x 113.5   |   |      |
|  | NDR-240  | 240       | V   |                     | 24, 48               | 63 x 125.2 x 113.5   |   |      |
|  | NDR-480  | 480       |     |                     |                      | 85.5 x 125.2 x 128.5 |   |      |
|  | SDR-75   | 75        | -   | 88~264              | 12, 24, 48           | 32 x 125.2 x 102     | <br>Class I<br>Parallel<br>(SDR-480P/960)<br>DC OK<br>(except for SDR-75)<br>Peak<br>150% load<br>(130% for SDR-960)<br>Slim & <b>High Performance</b> | 10   |
|  | SDR-120  | 120       |     |                     |                      | 40 x 125.2 x 113.5   |   |      |
|  | SDR-240  | 240       | V   | 90~264              | 24, 48               | 63 x 125.2 x 113.5   |   |      |
|  | SDR-480P | 480       |     |                     |                      | 85.5 x 125.2 x 128.5 |   |      |
|  | SDR-960  | 960       |     |                     |                      | 180~264              |   |      |
|  | WDR-60   | 60        | -   | 180~550<br>1φ & 2φ  | 5, 12, 24, 48        | 32 x 125.2 x 102     | <br>Class I<br>Slim & <b>Wide input range</b>  | 11   |
|  | WDR-120  | 120       |     |                     |                      | 40 x 125.2 x 113.5   |   |      |
|  | WDR-240  | 240       | V   |                     | 24, 48               | 63 x 125.2 x 113.5   |   |      |
|  | WDR-480  | 480       |     |                     |                      | 85.5 x 125.2 x 128.5 |   |      |

| Picture  | Model        | Power (W) | PFC | Input voltage (Vac)            | Output voltage (Vdc) | Dimension (mm)       | Key features  | Page |
|--|--------------|-----------|-----|--------------------------------|----------------------|----------------------|---|------|
|  | TDR-240      | 240       | -   | 340~550<br>3φ<br>(2φ possible) | 24, 48               | 63 x 125.2 x 113.5   | <br><br>(TDR-960) | 11   |
|  | TDR-480      | 480       | V   |                                |                      | 85.5 x 125.2 x 128.5 |   |      |
|  | TDR-960      | 960       |     |                                |                      | 110 x 125.2 x 150    |   |      |
|  | DRA-40       | 40        | -   | 90~264                         | 12, 24               | 40 x 90 x 100        | Io programmable<br>10~100%  | 12   |
|  | DRA-60       | 60        |     |                                |                      |                      |   |      |
|  | DRC-40       | 40        | -   | 90~264                         | 13.8, 27.6           | 40 x 90 x 100        | Battery charger<br>with UPS<br>security power   | 12   |
|  | DRC-60       | 60        |     |                                |                      | 55 x 90 x 100        |   |      |
|  | DRC-100      | 100       |     |                                |                      |                      |   |      |
|  | KNX-20E-640  | 20        | -   | 180~264                        | 30                   | 52.5 x 90 x 55       |    | 13   |
|  | KNX-40E-1280 | 40        |     |                                |                      | 72 x 90 x 57         |   |      |

## DC/DC

| Picture   | Model   | Power (W) | Input voltage (Vdc)                                    | Output voltage (Vdc) | Dimension (mm)       | Key features  | Page |
|---|---------|-----------|--|----------------------|----------------------|---|------|
|    | DDR-15  | 15        | G: 9~36<br>L: 18~75                                    | 3.3, 5, 12, 15, 24   | 17.5 x 90 x 54.5     |                | 14   |
|   | DDR-30  | 30        |  | 5, 12, 15, 24        | 35 x 90 x 54.5       |   |      |
|   | DDR-60  | 60        |  |                      | 52.5 x 90 x 54.5     |   |      |
|   | DDR-120 | 120       | A: 9~18<br>B: 16.8~33.6<br>C: 33.6~67.2<br>D: 67.2~154 | 12, 24, 48           | 32 x 125.2 x 102     | <br>EN50155   | 15   |
|   | DDR-240 | 240       |  | 24, 48               | 40 x 125.2 x 113.5   |   |      |
|   | DDR-480 | 480       |  |                      | 85.5 x 125.2 x 128.5 |   |      |
|  | DDRH-60 | 60        | 150~1500   | 5, 12, 24, 48        | 57 x 93.5 x 105      | <br>Solar PV | 16   |

## Supplementary Units

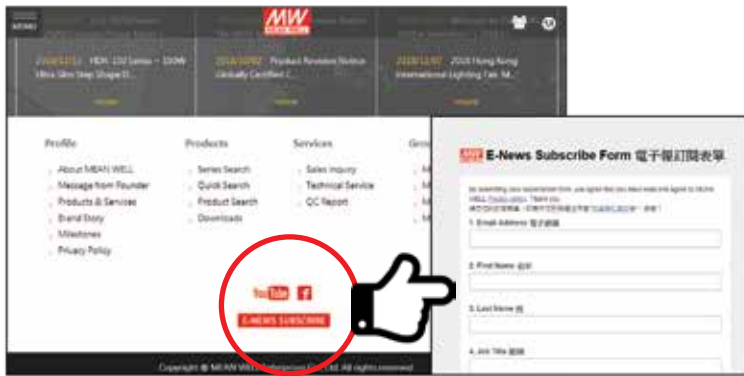
| Picture   | Model    | Input voltage (Vdc) | Output (A) | Dimension (mm)     | Key features  | Page |
|---|----------|---------------------|------------|--------------------|---|------|
|  | ICL-16R  | 180~264Vac          | 16         | 35 x 90 x 54.5     | 16A AC inrush current limiter                               | 16   |
|  | ICL-16L  |                     |            | 175 x 42 x 24      |   |      |
|  | ICL-28R  |                     | 28         | 52.5 x 90 x 54.5   | 28A AC inrush current limiter                               |      |
|  | ICL-28L  |                     |            | 175 x 42 x 24      |   |      |
|  | DR-RDN20 | 24                  | 20         | 55.5 x 125.2 x 100 | 20A redundancy module                                       | 17   |
|  | DRDN20   | 12, 24, 48          | 20         | 32 x 125.2 x 102   | 20A & 40A redundancy module                                 |      |
|   | DRDN40   |                     | 40         | 40 x 125.2 x 113.5 |   |      |
|  | ERDN20   | 5, 12, 24, 48       | 20         | 82 x 99 x 36       | 20A & 40A redundancy module                                 | 17   |
|   | ERDN40   | 12, 24, 48          | 40         | 97 x 99 x 36       |   |      |
|  | DR-UPS40 | 24                  | 24Vdc      | 55.5 x 125.2 x 100 | 40A DC UPS module   | 18   |
|  | DBUF20   | 24                  | 20         | 63 x 125.2 x 114.9 | Electrolytic capacitor,<br>Buffer time 350ms@20A, 250ms@40A | 18   |
|   | DBUF40   |                     | 40         |                    |   |      |

# Safety Chart

| Series Name            | Safety |         |           |               |                      |      |     |     |    |    | EMC          |                         |
|------------------------|--------|---------|-----------|---------------|----------------------|------|-----|-----|----|----|--------------|-------------------------|
|                        | UL508  | UL61010 | UL62368-1 | TUV EN62368-1 | TUV EN61558-1, -2-16 | BSMI | EAC | RCM | CB | CE | EN5032 Class | EN50491-5-1, -5-2, -5-3 |
| HDR-15/30/60/100       | ●      |         | ●         |               | ●                    | ●    | ●   | ●   | ●  | ●  | B            |                         |
| HDR-150                |        | ●       | ●         |               | ●                    |      | ●   |     | ●  | ●  | B            |                         |
| MDR-10/20              | ●      |         |           | ●             |                      | ●    | ●   | ●   | ●  | ●  | B            |                         |
| MDR-40/60              | ●      |         | ●         | ●             |                      | ●    | ●   | ●   | ●  | ●  | B            |                         |
| MDR-100                | ●      |         |           | ●             |                      | ●    | ●   | ●   |    | ●  | B            |                         |
| EDR-75/120/150         | ●      |         |           | ●             |                      |      | ●   | ●   | ●  | ●  | A            |                         |
| NDR-75/120             | ●      |         |           | ●             |                      |      | ●   | ●   | ●  | ●  | B            |                         |
| NDR-240/480            | ●      |         |           | ●             |                      | ●    | ●   | ●   | ●  | ●  | B            |                         |
| SDR-75/240             | ●      |         |           | ●             |                      |      | ●   |     | ●  | ●  | B            |                         |
| SDR-120/240/480[P]/960 | ●      |         |           | ●             |                      | ●    | ●   |     | ●  | ●  | B            |                         |
| WDR-60                 |        | ●       |           |               | ●                    |      | ●   |     |    | ●  | B            |                         |
| WDR-120/240/480        | ●      |         |           |               |                      |      | ●   |     | ●  | ●  | B            |                         |
| TDR-240                |        | ●       |           |               | ●                    |      | ●   |     |    | ●  | B            |                         |
| TDR-480/960            | ●      |         |           |               |                      |      | ●   |     | ●  | ●  | B            |                         |
| DRA-40/60              |        |         | ●         | ●             |                      |      | ●   |     | ●  | ●  | B            |                         |
| DRC-40/60/100          |        |         | ●         | ●             |                      |      | ●   |     | ●  | ●  | B            |                         |
| KNX-20E-640            |        |         |           |               | ●                    |      | ●   |     |    | ●  |              | ●                       |
| KNX-40E-1280           |        |         |           |               | ●                    |      | ●   |     |    | ●  |              | ●                       |
| DDR-15/30/60           |        |         |           |               |                      |      | ●   | ●   |    | ●  | B            |                         |
| DDR-120/240/480        |        |         |           |               |                      |      | ●   | ●   |    | ●  | B            |                         |
| DDRH-60                |        |         |           |               |                      |      | ●   |     |    | ●  | A            |                         |
| ICL-16R/L              |        |         |           |               |                      |      | ●   |     |    | ●  | B            |                         |
| ICL-28R/L              |        |         |           |               |                      |      | ●   |     |    | ●  | B            |                         |
| DR-RDN20               | ●      |         |           |               |                      |      | ●   |     |    | ●  | B            |                         |
| DRDN20/40              |        |         | ●         |               |                      |      | ●   |     | ●  | ●  | B            |                         |
| ERDN20/40              |        |         | ●         |               |                      |      | ●   |     | ●  | ●  | B            |                         |
| DBUF20/40              |        |         | ●         |               |                      |      | ●   |     | ●  | ●  | B            |                         |
| DR-UPS40               |        |         |           |               |                      |      | ●   |     |    | ●  | B            |                         |

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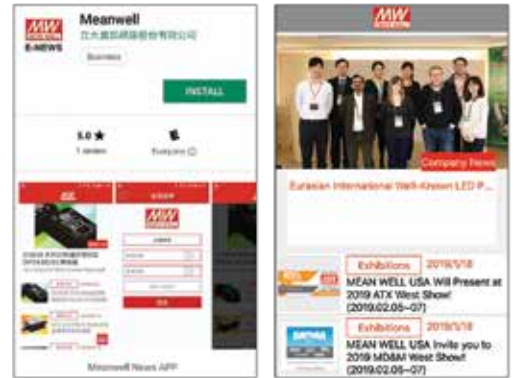
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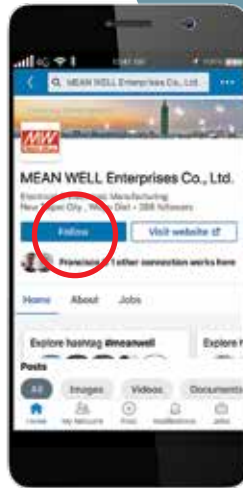


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01



02



03



04



05



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