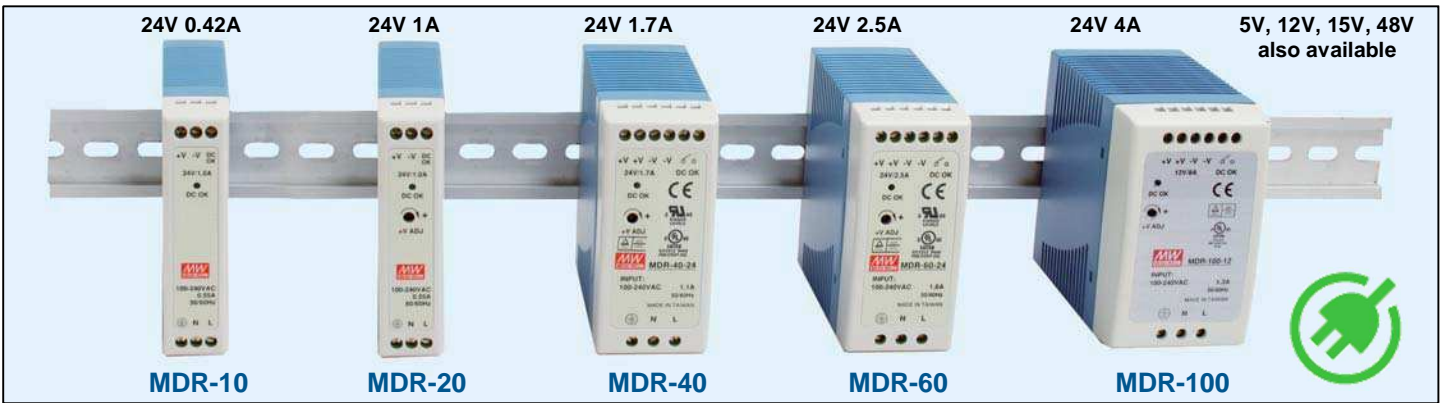


# MDR Series 10W~100W Slim Modern DIN Rail Series



## Power Supply Features

- Universal AC input / Full range
- Installed on DIN rail TS35/7.5 or TS35/15
- Protection: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (<1W for MDR-100)
- LED indicator for power on
- **Built-in active PFC and over temp. protection (MDR-100)**

- **Class I, Div 2 Hazardous Locations T4 (MDR-40/60)**
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- DC output voltage adjustable (except MDR-10)
- **3 year warranty**

## General Specifications (Please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detailed specs)



| Model No.                 | MDR-10   | MDR-20  | MDR-40  | MDR-60 | MDR-100            |
|---------------------------|--|---|---|--------|--------------------|
| AC input voltage range    | 85~264VAC; 120~370VDC  |   |   |        |                    |
| AC inrush current         | Cold start, 35A at 115VAC, 70A at 230VAC   | Cold start, 20A at 115VAC, 40A at 230VAC          | Cold start, 30A at 115VAC, 60A at 230VAC                  |        |                    |
| DC adjustment range       | Fixed  | ±10% rated output voltage                         | 0~20% rated output voltage (13.8V, 27.6V, 55.2V possible) |        |                    |
| Overload protection       | > 105% hiccup mode, auto-recovery  | 105~160% constant current limiting, auto-recovery | 105~150% constant current limiting, auto-recovery         |        |                    |
| Over voltage protection   | 115~135% rated output voltage  |   | 125~150% rated output voltage                             |        |                    |
| Setup, rise, hold up time | 500ms, 30ms, 120ms   | 500ms, 30ms, 50ms                                 |   |        | 3000ms, 50ms, 50ms |
| Withstand voltage         | I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC   |   |   |        |                    |
| Working temperature       | -20°C ~ +70°C (refer to output derating curve)   |   |   |        | -10°C ~ +60°C      |
| DC OK signal              | Active pull-up signal to +V  |   | Relay contact (30V/1A resistive)                          |        |                    |
| Safety standards          | UL508, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1, <b>AS/NZS60950.1</b> approved; MDR-40/60 also approved for UL62368-1, ANSI/ISA 12.12.01-2013 Class I, Div. 2 Group A, B, C, D Hazardous Locations T4 |   |   |        |                    |
| EMC standards             | BS EN/EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, EAC TP TC 020, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100), CNS13438   |   |   |        |                    |
| Connection                | I/P: 3 pole, O/P: 3 pole screw terminals   |   | I/P: 3 pole, O/P: 6 pole screw terminals                  |        |                    |
| Dimensions (WxHxD)        | 22.5x90x100mm  |   | 40x90x100mm   |        | 55x90x100mm        |
| Weight                    | 0.17Kg   | 0.19Kg  | 0.3Kg   | 0.33Kg | 0.42Kg             |

### MDR-10 Series



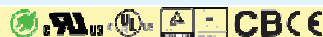
| Model No. | Output       | Tol | R&N   | Eff. |
|-----------|--------------|-----|-------|------|
| MDR-10-5  | 5V, 0~2.0A   | ±5% | 80mV  | 77%  |
| MDR-10-12 | 12V, 0~0.84A | ±3% | 120mV | 81%  |
| MDR-10-15 | 15V, 0~0.67A | ±3% | 120mV | 81%  |
| MDR-10-24 | 24V, 0~0.42A | ±2% | 150mV | 84%  |

### MDR-20 Series



| Model No. | Output       | Tol | R&N   | Eff. |
|-----------|--------------|-----|-------|------|
| MDR-20-5  | 5V, 0~3.0A   | ±2% | 80mV  | 76%  |
| MDR-20-12 | 12V, 0~1.67A | ±1% | 120mV | 80%  |
| MDR-20-15 | 15V, 0~1.34A | ±1% | 120mV | 81%  |
| MDR-20-24 | 24V, 0~1.00A | ±1% | 150mV | 84%  |

### MDR-40 Series



| Model No. | Output       | Tol. | R&N   | Eff. |
|-----------|--------------|------|-------|------|
| MDR-40-5  | 5V, 0~6.00A  | ±2%  | 80mV  | 78%  |
| MDR-40-12 | 12V, 0~3.33A | ±1%  | 120mV | 86%  |
| MDR-40-24 | 24V, 0~1.70A | ±1%  | 150mV | 88%  |
| MDR-40-48 | 48V, 0~0.83A | ±1%  | 200mV | 88%  |

### MDR-60 Series



| Model No. | Output       | Tol. | R&N   | Eff. |
|-----------|--------------|------|-------|------|
| MDR-60-5  | 5V, 0~10.0A  | ±2%  | 80mV  | 78%  |
| MDR-60-12 | 12V, 0~5.00A | ±1%  | 120mV | 86%  |
| MDR-60-24 | 24V, 0~2.50A | ±1%  | 150mV | 88%  |
| MDR-60-48 | 48V, 0~1.25A | ±1%  | 200mV | 87%  |

### MDR-100 Series



| Model No.  | Output      | Tol | R&N   | Eff. |
|------------|-------------|-----|-------|------|
| MDR-100-12 | 12V, 0~7.5A | ±1% | 120mV | 83%  |
| MDR-100-24 | 24V, 0~4.0A | ±1% | 150mV | 86%  |
| MDR-100-48 | 48V, 0~2.0A | ±1% | 200mV | 87%  |



#### Energy Saving —

We care about saving energy. This logo indicates that the model has "low no-load power consumption"



#### To satisfy all customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Simply the Best Service