



Features

- Universal AC input / Full range
- Installed on DIN rail TS-35 / 7.5 or 15
- Protections: 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 (MDR-20~100)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

| 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 | | |
| 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, 1minute | | | | |
| Working temperature | -20~+70°C (refer to output derating curve) | | | | -10~+60°C |
| DC OK signal | Open collector | | Relay contact | | |
| Safety standards | UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 60950.1 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, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100), CNS13438 | | | | |
| Connection | I/P: 3 poles, O/P: 3 poles screw DIN terminal | | IP: 3 poles, O/P: 6 poles screw DIN terminal | | |
| Dimension (WxHxD)(mm) | 22.5x90x100 | | 40x90x100 | | 55x90x100 |

10W

| Model No. | Output | Tol. | R&N | Effi. |
|-----------|--------------|------|-------|-------|
| 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% |

| Model No. | Output | Tol. | R&N | Effi. |
|-----------|--------------|------|-------|-------|
| MDR-40-24 | 24V, 0~1.70A | ±1% | 150mV | 88% |
| MDR-40-48 | 48V, 0~0.83A | ±1% | 200mV | 88% |

20W

| Model No. | Output | Tol. | R&N | Effi. |
|-----------|--------------|------|-------|-------|
| 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% |

60W

| Model No. | Output | Tol. | R&N | Effi. |
|-----------|--------------|------|-------|-------|
| 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% |

40W

| Model No. | Output | Tol. | R&N | Effi. |
|-----------|--------------|------|-------|-------|
| MDR-40-5 | 5V, 0~6.00A | ±2% | 80mV | 78% |
| MDR-40-12 | 12V, 0~3.33A | ±1% | 120mV | 86% |

100W

| Model No. | Output | Tol. | R&N | Effi. |
|------------|-------------|------|-------|-------|
| 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% |