



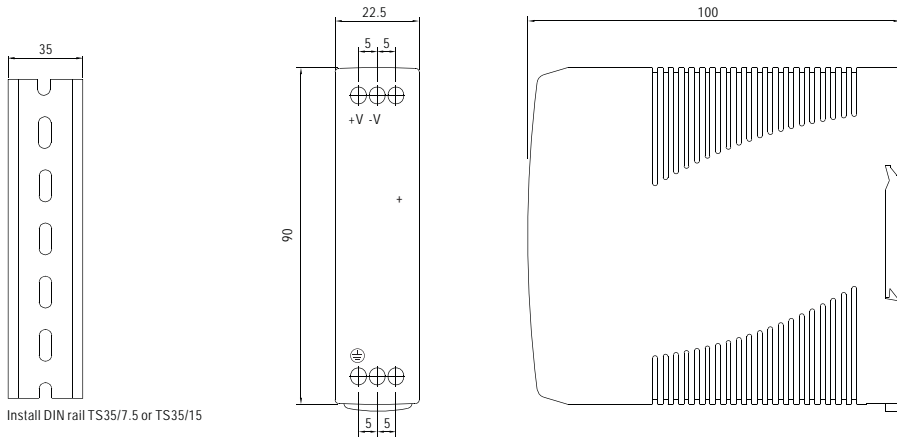
MDR-20 Series

Features

- ✓ Universal AC input/Full range
- ✓ Protections: Short circuit/Overload/Over voltage/Over temp.
- ✓ Cooling by free air convection
- ✓ Can be installed on DIN-Rail TS-35/7.5 or 15
- ✓ Built in DC OK active signal
- ✓ UL 508 (industrial control equipment) approved
- ✓ LED indicator for power on
- ✓ 100% full load burn-in test
- ✓ No load power consumption < 0.75W
- ✓ 3 years warranty



Dimensions



Install DIN rail TS35/7.5 or TS35/15

Hardware Specifications

Output

Model	MDR-2005	MDR-2012	MDR-2015	MDR-2024
DC Voltage	5V	12V	15V	24V
Rated Current	3A	1.67A	1.34A	1A
Current Range	0-3A	0-1.67A	0-1.34A	0-1A
Rate Power	15W	20W	20W	24W
Ripple & Noise	800mVp-p	120mVp-p	120mVp-p	150mVp-p
Voltage ADJ. Range	4.75-5.5V	10.8-13.2V	13.5-16.5V	21.6-26.4V
Voltage Tolerance	± 2.0%	± 1.0%	± 1.0%	± 1.0%
Line Regulation	± 1.0%	± 1.0%	± 1.0%	± 1.0%
Load Regulation	± 1.0%	± 1.0%	± 1.0%	± 1.0%
Setup, Rise Time	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load			
Hold up Time	50ms/230VAC 20ms/115VAC at full load			

Input

Model	MDR-2005	MDR-2012	MDR-2015	MDR-2024
Voltage Range	85-264VAC 120-370VDC			
Frequency Range	47-63Hz			
Efficiency	76%	80%	81%	84%
AC Current	0.55A/115VAC, 0.35A/230VAC			
Inrush Current	Cold Start 20A/115VAC, 40A/230VAC			
Leakage Current	<1mA/240VAC			

Protection

Model	MDR-2005	MDR-2010	MDR-2015	MDR-2024
Over Voltage	5.75-6.75V	13.8-16.2V	17.25-20.25V	27.6-32.4V
AC Current	105-150% rated output power			

Environmental

- Operating Temp:** Regular: -20 to 70°C
- Storage Temp:** -40 to 85°C (-4 to 185 °F)
- Operating Humidity:** 20%~90% RH (Non-condensing)

Others

- MTBF:** 236.9K hrs min. MIL-HDBK-217F
- Dimensions:** 22.5*90*100mm (L*W*H)
- Weight:** 0.19kg

Regulatory Approvals

- Safety:** UL508, TUV EN60950-1
- EMI:** EN55011, EN55022 (CISPR22), EN61204-3 Class B
- Harmonic Current:** EN61000-3-2, -3
- EMS:** EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, ENV55024, EN61000-6-1, EN61204-3