



20~100W Miniature Single Output

- ◆ Universal AC input/Full range
- ◆ Installed on DIN rail TS35/7.5 or 15
- ◆ Protections: Short circuit/Overload/Over voltage
- ◆ No load power consumption <0.75W
- ◆ LED indicator for power on
- ◆ NEC class 2/LPS compliant (selected models)
- ◆ DC OK signal output(MDR-20)
- ◆ DC OK relay contact(MDR-40/60)
- ◆ Cooling by free air convection
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

DIN Rail Power Supply

General Specification

Model No.	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC; 120~370VDC			
AC inrush current	Cold start, 20A at 115VAC, 40A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	±10% rated output voltage	0~+20% rated output voltage		
Overload protection	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, 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)			
DC OK signal	Open collector	Relay contact		
Safety standards	UI508, TUV EN60950-1, UL60950-1(MDR-40/60) approved, NEC class 2 compliant(MDR-10/20, MDR-40-12/24/48, MDR-60-12/24/48, MDR-100-24/48)			
EMC standards	EN55022 class B, EN61000-3-2, -3, env50204, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61204-3, EN61000-6-2 heavy industry level(MDR-40/60/100)			
Connection	I/P: 3 poles, O/P: 3 poles screw DIN terminal	I/P: 3 poles, O/P: 6 pole screw DIN terminal		
Dimension(L*W*H)(mm)	22.5×90×100	40×90×100	40×90×100	55×90×100
Packing	0.20kg/pc	0.26kg/pc	0.26kg/pc	0.45kg/pc

MDR-20 Series

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%

MDR-40 Series

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%
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	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%

MDR-100 Series

Model No.	Output	Tol.	R&N	Effi.
MDR-100-12	12V, 0-7.5A	±1%	120mV	83%
MDR-100-24	24V, 0-4A	±1%	150mV	86%
MDR-100-48	48V, 0-2A	±1%	200mV	87%