



MD60 Series 60W DINergy™ Power Supply

Features

- Compact size, high efficiency and DIN Rail mounting
- 60°C rated provides full power/no derating required
- 100-240VAC wide-range auto-selection input
- Overcurrent, shortcircuit, and overvoltage protection
- DC OK LED status indicator
- Parallel operation capable
- Power boost available for large load start demand
- Safety meets UL508, UL60950 and IEC60950
- CE EN61000-3-2 compliant active PFC filtering
- EMI meets FCC15 B, EN55022 B and CISPR22 B
- High reliability, MTBF>200,000 hrs
- Operating temperature: -10°C to 70°C
- 5 year warranty
- Listed for UL1604 Class 1 Division 2



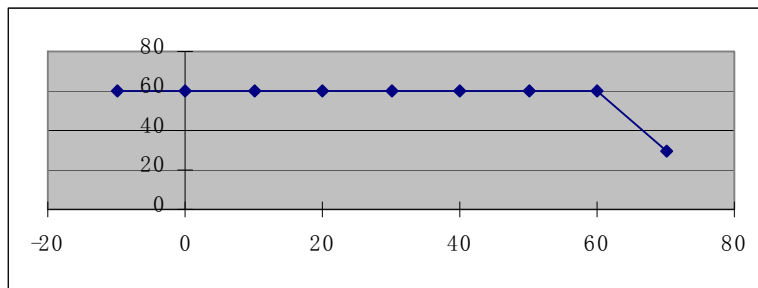
Micron DINergy™ units are suitable for process control systems, mechanical equipment, transport equipment, vending service equipment, building automation, and electronic/electrical instrumentation.

Specifications

Model	MD60-12-1	MD60-24-1	MD60-48-1
Input Voltage	Rated 100-240VAC		
	Range 85-264VAC		
Input Current	0.7A/240VAC, 1.3A/100VAC		
Frequency	50-60Hz, $\pm 6\%$		
Inrush Current	Typ. <25A		
Earth Leakage Current	<3.5mA		
Start-up Time	<1S		
Rated Output Voltage/Current	12VDC/4.5A	24VDC/2.5A	48VDC/1.25A
Output Set Point	$12.5 \pm 0.5\%$	$24.5 \pm 0.5\%$	$48.5 \pm 0.5\%$
Output Voltage Regulation	10-16VDC	22-28VDC	46-52VDC
Rated Output Current	4.5-3.8A	2.5-2.1A	1.25-1.15A

Min. Output Current	0A	0A	0A
Output Peak Current	120% of rated output current		
Efficiency	86%/230V	86%/230V	87%/230V
Ripple & Noise	<=100mV		
Load Regulation	1%		
Voltage Regulation	0.5%		
Temperature Coefficient	0.02%/°C		
Hold-up Time	>=20mS		
Transient Overshoot	Load is changed from 50% to 100% step by step at a rate of 0.2A/μS, overshoot<500mV		
Reverse Voltage Immunity	<16V	<35V	<63V
Safety	UL60950, UL508, EN60950		
EMC	FCC 15B, EN55022 B, EN61000-3-2, IEC61000-4-2,3, 4, 5, 6,8& 11		
Reliability	MIL HDBK 217F, 200,000hrs		
Case Safety Standard	IEC60529, IP 20		
Pollution Standard	EN50178 Class 2		
Electrical Surge Protection	UL60950 Class I, PE is connected to ground		
Outside Dimension	1.97 (50.0) × 4.13 (105.0) × 4.88 (124.0)		
Weight	490g (0.89 lb)		

Temperature Corresponding Curve (T-P) (Output power 60W)



Protection

Method	Threshold	Mode
Fuse	3.15AT, 250V	Fast blow
Shortcircuit Protection	Automatic Recovery	Automatically recovers in normal operation after failure is removed.
Overcurrent Protection	125-135% of rated output	
Overvoltage Protection	110-130% of rated output	

Micron Industries Corporation
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