



## 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



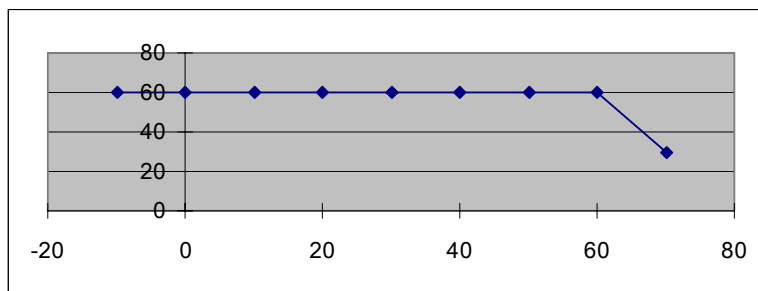
Micron DINergy™ units are suitable for process control systems, mechanical equipment, transport equipment, vending service equipment, building automation, and electronic/electrical instrumentation.

### 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, ±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±0.5%	24.5±0.5%	48.5±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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