



MD240 Series 240W DINergy™ Power Supply

Features

- ✧ 100-240VAC wide-range autoselect input
- ✧ Compact size, high efficiency and DIN Rail mounting
- ✧ Active PFC meets EN61000-3-2
- ✧ Overcurrent, shortcircuit, overvoltage and overheat protection
- ✧ DC OK LED and active output terminal for remote status check
- ✧ Power boost available for start up load demand
- ✧ Parallel operation (increase output power or redundant operation)
- ✧ UL508, UL60950 and IEC60950
- ✧ EMI meets FCC15 B, EN55022 B and CISPR22 B
- ✧ High reliability, MTBF>200,000 hrs
- ✧ Listed for UL1604 Class 1 Division 2
- ✧ 5 year warranty



Applications

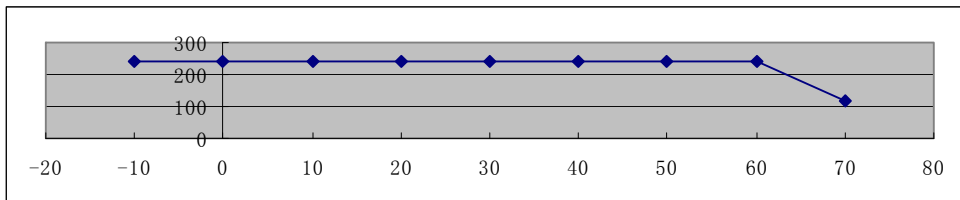
Micron DINergy™ power supplies are suitable for process control systems, mechanical equipment, transport equipment, vending service equipment, building automation, and electronic/electrical instrumentation.

Specifications

Model	MD240-12-1	MD240-24-1	MD240-48-1
Input Voltage	Rated 100-240VAC		
	Range 85-264VAC		
Input Current	3A/100VAC, 1.3A/240VAC	3.5A/100VAC, 1.6A/240VAC	
Frequency	50-60Hz, $\pm 6\%$		
Inrush Current	Typ.<15A		
Earth Leakage Current	<3.5mA		
Start-up Time	<1S		
PFC/Harmonics	>0.95/Meets EN61000-3-2		
Rated Output Voltage/Current	12VDC/15A	24VDC/10A	48VDC/5A
Output Pre-regulation (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	15-11.3A	10-8.6A	5-4.6A
Min. Output Current	0A	0A	0A
Output Peak Current	120% of rated output current		
Efficiency	86%/230V	88%/230V	88%/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	3.43 (87.0) × 5.13 (130.0) × 4.88 (124.0)		
Weight	1,300g (2.37 lb)		

Temperature Corresponding Curve (T-P) (Output power 240W)



Protection

Method	Threshold	Mode
Fuse	6.3AT, 250V	Delay
Shortcircuit Protection	Automatic Recovery	Automatically recovers to normal operation after failure is removed.
Overcurrent Protection	125-135% of rated output	
Overvoltage Protection	110-130% of rated output	
Overheat Protection	105°C	

Micron Industries Corporation
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