



## MD480 Series 480W DINergy™ Power Supply

### Features

- ✧ 100-240VAC wide-range auto-select input (no switches)
- ✧ Compact size, high efficiency and DIN Rail mounting
- ✧ 60°C rated design, -10° through 70°C operating range
- ✧ Active PFC meets EN61000-3-2
- ✧ Overcurrent, shortcircuit, overvoltage, overheat protection
- ✧ DC OK LED and active output terminal for remote check
- ✧ Power boost provided for large start up demand
- ✧ Parallel for increased output power or redundant operation
- ✧ Safety meets UL508, UL60950 and IEC60950
- ✧ EMI meets FCC15 B, EN55022 B and CISPR22 B
- ✧ High reliability, MTBF>200,000 hrs
- ✧ 5 year limited warranty



### Applications

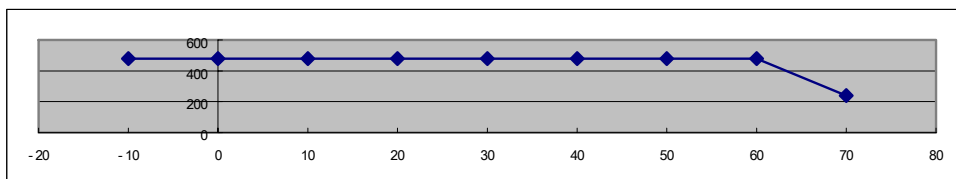
Micron DINergy™ power supplies are suitable for process control systems, mechanical equipment, transport equipment, vending service equipment, building automation, and electronic/electrical instrumentation.

### Specifications

Model	MD480-24-1	MD480-36-1	MD480-48-1
Input Voltage	Rated 100-240VAC		
	Range 85-264VAC		
Input Current	6.3A/100VAC, 2.6A/240VAC		
Frequency	50-60Hz, ±6%		
Inrush Current	Typ.<30A		
Earth Leakage Current	<3.5mA		
Start-up Time	<1S		
PFC/Harmonics	>0.95/Meets EN61000-3-2		
Rated Output Voltage/Current	24VDC/20A	36VDC/13.3A	48VDC/10A
Output Pre-regulation (Set Point)	24.5±0.5%	36.5±0.5%	48.5±0.5%

Output Voltage Regulation	22-28VDC	34-40VDC	46-52VDC
Rated Output Current	20-17.1A	13.3-12A	10-9.2A
Min. Output Current	0A	0A	0A
Output Peak Current	125% of rated output current		
Efficiency	90.4%/230V	90.5%/230V	90.7%/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	<35V	<63V	<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	6.14 (156.0) × 4.96 (126.0) × 5.12 (130.0)		
Weight	2,250g (4.73 lb)		

Temperature Corresponding Curve (T-P) (Output power 480W)



Protection

Method	Threshold	Mode
Fuse	12AT, 250V	Delay
Shortcircuit Protection	Automatic Recovery	Automatically recovers after cause is removed.
Overcurrent Protection	125-135% of rated output	
Overvoltage Protection	110-130% of rated output	
Overheat Protection	90°C±5°C	

Micron Industries Corporation  
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