

MPE-320S Series



Single Output, 320W Compact, Enclosed AC/DC Power Supplies

Key Features:

- 320W Output Power
- Selectable 88-264 AC Input
- EN 60950 Approved
- Internal Fan With Control
- Eight Single Output Models
- Meets EN55022
- >188 kHour MTBF
- Compact Metal Enclosure



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Electrical Specifications

Specifications typical @ +25°C, nominal input voltage & rated output current, unless otherwise noted. Specifications subject to change without notice.

Input

Parameter	Conditions	Min.	Typ.	Max.	Units
Input Voltage Range	Switch Selectable	88	115	132	VAC
		176	220	264	VDC
		248		370	VDC
Input Frequency		47		63	Hz
Input Current	See Model Selection Guide				
Inrush Current	Cold Start, 115 VAC		20.0		A Pk
	Cold Start, 230 VAC		40.0		A Pk
Safety Ground Leakage Current	115 VAC			2.0	mA
	230 VAC			3.5	mA

Output

Parameter	Conditions	Min.	Typ.	Max.	Units
Output Voltage	See Model Selection Guide				
Output Current	See Model Selection Guide				
Output Voltage Adjustment	See Model Selection Guide				
Output Voltage Tolerance, See Note 1	See Model Selection Guide				
Ripple & Noise (20 MHz), See Note 2	See Model Selection Guide				
Hold-Up Time	115 VAC		20		mSec
	230 VAC		24		mSec
Set-Up Time	230 VAC		2,000		mSec
Rise Time	230 VAC		20		mSec
Temperature Coefficient			±0.02		%/°C
Short Circuit Protection	Continuous (Autorecovery)				
Over Voltage Protection	See Note 3	115		135	%
Overload Protection	See Note 4	105		135	%
Fan Control (Over Temp Control)	Fan On, 5V - 15 Vout				RT1 ≥65 °C
	Fan On, 24V - 48 Vout				RT1 ≥70 °C
	Fan Off, 5V - 15 Vout				RT1 ≤55 °C
	Fan Off, 24V - 48 Vout				RT1 ≤65 °C
	Output Shutdown, 5V - 15Vout				RT1 ≥70 °C
	Output Shutdown, 24V - 48Vout				RT1 ≥80 °C

General

Parameter	Conditions	Min.	Typ.	Max.	Units
Isolation Voltage	Input to Output	3,000			
	Input to Ground	1,500			VAC
	Output to Ground	500			VAC
Isolation resistance	500 VDC		100		MΩ
EMC Compliance	EMI/RFI	Conducted EN 55022; EN 61000-3-2, -3			
		Electrostatic Discharge (ESD) IEC/EN 61000-4-2, -6, -8, -11			
		RF Field Susceptibility IEC/EN 61000-4-3			
		Electrical Fast Transients/Bursts On Mains IEC/EN 61000-4-4			
Switching Frequency	Surge				IEC/EN 61000-4-5
			75		kHz

Environmental

Parameter	Conditions	Min.	Typ.	Max.	Units
Operating Temperature Range	Ambient	-10	+25	+60	°C
Storage Temperature Range		-20		+85	°C
Cooling	Internal Fan With Built In Control				
Humidity	RH, Non-condensing			95	%

Physical

Case Size	8.46 x 4.52 x 1.97 Inches (215.0 x 115.0 x 50.0 mm)				
Case Material	Vented Metal Enclosure				
Weight	38.1 Oz (1.08 kg)				

Reliability Specifications

Parameter	Conditions	Min.	Typ.	Max.	Units
MTBF	MIL HDBK 217F, 25°C, Gnd Benign	188			kHours
Safety Standards	IEN 60950, IEC 60950				
Vibration	10~500 Hz, 2G 10 min/1 Cycle. Period of 60 min each along X, Y & Z Axis				

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