

MPE-40S Series

Single Output, 40W Compact, Enclosed AC/DC Power Supplies



Key Features:

- 40W Output Power
- Universal 85-264 AC Input
- EN 60950 Compliant
- Four Single Output Models
- Meets EN55022
- >300 kHour MTBF
- Compact Metal Enclosure



RoHS Compliant



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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	Universal	85		264	VAC
		120		370	VDC
Input Frequency		47		63	Hz
Input Current	See Model Selection Guide				
Inrush Current	Cold Start, 115 VAC		30.0		A Pk
	Cold Start, 230 VAC		60.0		
Safety Ground Leakage Current	115 VAC			0.6	mA
	230 VAC			1.0	

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		15		mSec
	230 VAC		60		
Set-Up Time	115 VAC		800		mSec
	230 VAC		300		
Rise Time	115 VAC		50		mSec
	230 VAC		50		
Temperature Coefficient			±0.02		%/°C
Short Circuit Protection	Continuous (Autorecovery)				
Over Voltage Protection	See Note 3	115		135	% Vout
Overload Protection	See Note 4	110		160	% Iout

General

Parameter	Conditions	Min.	Typ.	Max.	Units	
Isolation Voltage	Input to Output	3,000			VAC	
	Input to Ground	1,500				
	Output to Ground	500				
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			
		Surge	IEC/EN 61000-4-5			
Switching Frequency			36		kHz	

Environmental

Parameter	Conditions	Min.	Typ.	Max.	Units
Operating Temperature Range	Ambient	-10	+25	+60	°C
Storage Temperature Range		-20		+85	°C
Cooling	Free Air Convection (See Derating Curve)				
Humidity	RH, Non-condensing	20		90	%

Physical

Case Size	5.18 x 3.93 x 1.53 Inches (131.6 x 100.0 x 38.0 mm)				
Case Material	Vented Metal Enclosure				
Weight	15.4 Oz (0.44 kg)				

Reliability Specifications

Parameter	Conditions	Min.	Typ.	Max.	Units
MTBF	MIL HDBK 217F, 25°C, Gnd Benign	300			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				

