

Special Power Supply 25W MP25 Series



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RoHS

Key features

- Universal input :85—264Vac 50/60 Hz
- Low ripple and noise
- Output overload protection ,short circuit protection
- High efficiency, high density
- Isolating voltage 4kv
- leakage current(<0.1mA)
- Medical level safety certification (Class 2 MOPP patients protection measure)
- Lower power, RoHS, no-load loss is less than 0.1W
- 100% test and work
- 3 years product warranty
- Pass CB certification

MP25 series --- a medical class small size modular switching power supply offered by Zhongyiguang. The output power of this series module power supply is 25 W, with extremely low no-load loss (< 0.1W), low c,which is only 0.1mA, small size (70*48*23.5mm) and isolated pressure up to 4kv,etc. The product' s safety specifications meet the UL60601. EN60601 and other related standards. This series of products are widely used in medical devices and other related equipment, and it also be used in industry, instrumentation, electricity and other industries. Such as applied to a relatively harsh environment electromagnetic compatibility must refer to the application circuit.

Electrical	specificati	ons				
Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
MP25-S05	85 ~ 264VAC	25	5	5	50	77
MP25-S12	85 ~ 264VAC	25	12	2.1	50	83
MP25-S15	85 ~ 264VAC	25	15	1.66	50	84
MP25-S24	85 ~ 264VAC	26.4	24	1.1	50	86
MP25-S48	85 ~ 264VAC	25	48	0.52	50	88

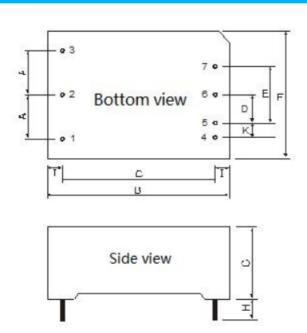
一般特性		
Output	Output voltage accuracy Source effect Load effect Starting time (TYP) Output hold time (TYP)	±2.0% ±1.0% ±1.0% 40ms/230VAC 100ms/115VAC at full load 40ms/230VAC 15ms/115VAC at full load
	Input voltage range Input frequency range	85 ~ 264VAC 70 ~ 370VDC 47 ~ 440Hz
Input	Input current (TYP) Inrush current (TYP)	450mA / 115VAC 280m A / 230VAC Inrush current 20 A / 115 VAC 40 A / 230 VAC
	Recommended values for External Fuses Leakage current (TYP)	T2A / 250Vac (Slow break) <0.1mA at 230VAC/50Hz
Protection	Output overload and short circuit protection	on, automatic recovery after troubleshooting



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	Operating Temperature	—40 ~ +70 °C (≧40°C, According to 0.3W/°C derating)			
Work	Humidity 85% .RH max	85% .RH max			
environment	Storage Temperature	-40 ~ +85, 10 ~ 95% RH			
	Temperature coefficient	0.03%/ (0~ 50°C)			
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes			
	Safety Standard	EN60601,UL60601			
	I/O-Isolation voltage	I/P-O/P:4.0KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:>100M Ohms/500VDC 25°C 70% RH			
Safety and	EMI / RFI conducted	EN55011, EN55022 (CISPR22)			
EMC (Note:3)	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV Note: See the application circuit for details			
	RF	IEC/EN 61000-4-3 Note: See the application circuit for details			
	EFT	IEC/EN 61000-4-4 level 4 4kV Note: See the application circuit for details			
	SURGE	IEC/EN 61000-4-5 level 4 2kV/4kV Note: See the application circuit for details			
	MTBF	200K hrs min. MIL-HDBK-217F @ 25°C			
	Dimension	70*48*23.5mm (L*W*H)			
Others	Weight	120g/PCS 14.3kg/Per box			
	Package	112PCS/Per box			
	size of packing box	360*300*250mm			
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature				
Notes	 Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted p 47uf parallel capacitor 	Hz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf &			
	The power supply is considered a comre-confirmed that it still meets EMC di	ponent which will be installed into a final equipment.The final equipment must be rectives			

Dimension



European Projection Diagram

	Shell size	Pin	Pin function
A	20.0	1	FG
В	70.0	2	AC(N)
C	62.0	3	AC(L)
D	11.5		
E	23.0	4	No Pin
F	48.0	5	-Vo
G	23.5	6	No Pin
1	≥4.0	7	+Vo
K	5.75		***

Remark:

Dimensional unit:mm

Size of terminal section:1.00mm

Length of terminal:≥4.00mm

Terminal tolerance: ±0.1mm Unmarked tolerance: ±0.5mm

Module weight: 120g (TPY)

Typical application diagram