

AC-DC Module Power Supply 50W HP50 series



(E

Key features

- Universal input:85—264Vac 50/60 Hz
- EMC reaches level 4 (EN61000-6-2,A class heavy industry standard)
- Low ripple and noise
- Over load and short-circuit protection
- High efficiency, high power density, minimum size
- Lower power, RoHS, no-load loss<0.1W
- 100% test and work
- 3 years product warranty

HP50 series --- a high stability super small size modular switching power supply offered by Zhongyiguang. It features minute extension whigh reliability high isolation voltage higher cost performance etc. And it is mainly used in heavy industry environment instruments and other related equipment, such as applied to a relatively harsh environment electromagnetic compatibility must refer to the application circuit.

电气规格								
Model	output voltage(V)	Output current (A)	Output power(W)	Efficiency(%)	Ripple			
HP50-S12	12	4	48	84	50mVp-p			
HP50-S15	15	3.3	49	85	50mVp-p			
HP50-S24	24	2	48	87	50mVp-p			
HP50-S48	48	1	48	88	50mVp-p			

一般特性					
	Output voltage accuracy	±2.0%			
	Source effect	±1.0%			
Output	Load effect	±1.0%			
	Starting time (TYP)	40ms/230VAC 100ms/115VAC at full load			
	Output hold time (TYP)	40ms/230VAC 15ms/115VAC at full load			
	Input voltage range	85 ~ 264VAC 70 ~ 370VDC			
	Input frequency	47 ~ 440Hz			
	Input current(TYP)	780mA / 115VAC 470m A / 230VAC			
Input	Inrush current (TYP)	Cold booting 20 A / 115 VAC 40 A / 230 VAC			
	Recommended values for External Fuses	T3.15A / 250Vac (disconnect slowly)			
	Leakage current (TYP)	<1mA at 230VAC/50Hz			
Protection	Over-current and short circuit protection, automatic recovery after troubleshooting				
	Operating Temperature	—40 ~ +70 °C (≧40°C,according to the0.65W/°C derating)			
Work	Humidity	85% .RH max			
environment	Storage Temperature	-40 ~ +85, 10 ~ 95% RH			
	Temperature coefficient	0.03%/ (0~ 50℃)			
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes			
Safety and	Safety Standard	Conform to UL1012,EN60950,UL60950			

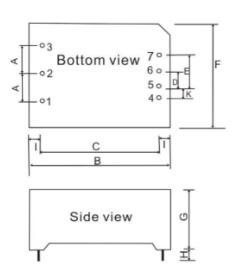


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EMC (Note:3)	I/O-Isolation voltage	I/P-O/P:3.0KVAC		
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:>100M Ohms/500VDC 25°C 70% RH		
	EMI / RFI conducted	Conform to EN55011, EN55022 (CISPR22)		
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV (Note: See the application 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℃		
	Dimensions	70*48*23.5mm (L*W*H)		
Others	Weight	120g/piece, 14.3kg/box		
	Pack	112piece		
	The size of the packing box	360*300*250mm		
Notes	 All parameters NOT specially mentioned are measured at 25 of ambient temperature ,humidity < 75%, 230VAC input and rated load test. Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf & 100uf electrolytic capacitor. 			

e final equipment



	Shell size	Pin	Pin function	
Α	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: unit of measunrement:mm Size of terminal section:1.00mm Terminal to lerance: ±0.1mm Leng of the terminal:≥4.00mm

No to lerance: ± 0.5mm

Module weight: 120g(typical value)

Block diagram