



Standard package



RoHS

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,The minimum volume
- Lower power, RoHS , no-load loss < 0.1W
- 100% test and work
- 3 years product warranty

HP40 series--- a high stability、super small volume modular switching power supply offered by Zhongyiguang. It features minute extension 、 high 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..

Electrical specifications

Model	output voltage(V)	Output current(A)	Output power(W)	Efficiency(%)	Ripple
HP40-S05	5	7	35	77	50mVp-p
HP40-S12	12	3.3	39.6	80	50mVp-p
HP40-S15	15	2.6	39	81	50mVp-p
HP40-S24	24	1.66	40	84	50mVp-p
HP40-S48	48	0.83	40	87	50mVp-p

General features



Output	Output voltage accuracy	±2.0%
	Source effect	±1.0%
	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	Input voltage range	85 ~ 264VAC 70 ~ 370VDC
	Input frequency	47 ~ 440Hz
	Input current(TYP)	640mA / 115VAC 390mA / 230VAC
	Inrush current (TYP)	cold boot 20 A / 115 VAC 40 A / 230 VAC
	Recommended values for External Fuses	T3.15A / 250Vac (disconnected slowly)
	Leakage current (TYP)	< 1mA at 230VAC/50Hz
Protection	Over-current and short circuit protection, automatic recovery after troubleshooting	
Work environment	Operating Temperature	—40 ~ +70 °C (≥40°C, According to 0.5W/°C temperature derating)
	Humidity	85% .RH max
	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 and EMC (Note:3)	Safety Standard	Conform to UL1012,EN60950,UL60950
	I/O-Isolation voltage	I/P-O/P:3.0KVAC 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
	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)
Others	MTBF	200K hrs min. MIL-HDBK-217F @ 25°C
	Dimensions	70*48*23.5mm (L*W*H)
	Weight	120g/piece, 14.3kg/box
	Pack	112piece
	The volume of the packing box	360*300*250mm
Notes	1. All parameters NOT specially mentioned are measured at 25 of ambient temperature ,humidity<75%, 230VAC input and rated load test.	
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf & 100uf electrolytic capacitor.	