24W series AC to DC power supply



♦Feature

- Universal Input Switch Mode Power Supplies
- No load power consumption <0.3 Watt
- Meet energy star CEC, EUPS, MEPS level (IV) & (V)
- Protection: over voltage , over current ,short circuit
- High Efficiency and Reliability
- Range output 3VDC~36VDC
- Comply to UL,CSA, GS/TUV, CE, PSE

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Specif	Specification					
Input	Voltage range	90~264Vac				
	Frequency range	47~63Hz				
	AC current	0.8A Max. @ 230Vac				
	Inrush current (max.)	30Amax. @ 230Vac, cold start				
	Leakage current(max.)	0.25mA @120Vac,60Hz / 0.45mA @ 230Vac,50Hz				
Protection	Over load	>105% rate output voltage power				
		Hiccup mode, Recovery automatically				
	Short circuit	Power shutdown				
		Auto recovery after fault condition is removed				
nt	Operating Temp.	0~40℃				
Environment	Relative Humidity	20%~90%, non-condensing				
5	Storage Temp. / Humidity	-20℃~85℃, 10%~95% RH				
, <u>i</u>	Vibration	19.6m/s ² 10-55Hz, 3minutes period,60minutes each along X,Y and Z axis (Non o				
Ш	IMPACT	196.1m/s ² 11ms, once each X,Y and Z azis (Non operating)				
	Safety Standard	UL60950-1, EN60950-1 / EN61558 / J60950				
∞ >∪	Withstand voltage	I/P-O/P:3KVac, 1 minute				
Safety & EMC	Isolation resistance	I/P-O/P: 100M ohms/500Vdc/25℃/70%RH				
Sa	Conducted / Radiated	EN55022 , FCC part 15 Class B				
	Harmonic	EN6100-3-2				
Others	MTBF	100,000 hours min. @25°C, 80% of full load. (MIL-HDBK-217F)				
	Dimension	84mm *52.3mm *35mm				
	1.All parameters are specified at 230Vac input, rated load,25℃ 70% RH ambient;					
Note	2.DC voltage: the output voltage set at point measure by plug terminal & 100% load;					
	3.Ripple & Niose are measured at 20Mhz with a 0.1uf & 47uf capacitor					
	4. Tolerance: includes set up tolerance, line regulation, load regulation,					
	5.Line regulation is measured from low line to high line at rated load,					
	6.Load regulation is measured from 0%~100% at rated load					
	7.Efficency is measured					
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Output

Output						
Model No.	DC Voltage	Current range (mA)	Ripple & Noise	Line regulation	Load regulation	Voltage tolerance
SPA030yyyy HZ	3.0V	100 to 4000	1%	±1%	±5%	±5%
SPA033yyyy HZ	3.3V	100 to 4000	1%	±1%	±5%	±5%
SPA035yyyy HZ	3.5V	100 to 4000	1%	±1%	±5%	±5%
SPA040yyyy HZ	4.0V	100 to 4000	1%	±1%	±5%	±5%
SPA045yyyy HZ	4.5V	100 to 4000	1%	±1%	±5%	±5%
SPA050yyyy HZ	5.0V	100 to 4000	1%	±1%	±5%	±5%
SPA055yyyy HZ	5.5V	100 to 4000	1%	±1%	±5%	±5%
SPA060yyyy HZ	6.0V	100 to 4000	1%	±1%	±5%	±5%
SPA065yyyy HZ	6.5V	100 to 3500	1%	±1%	±5%	±5%
SPA070yyyy HZ	7.0V	100 to 3400	1%	±1%	±5%	±5%
SPA075yyyy HZ	7.5V	100 to 3000	1%	±1%	±5%	±5%
SPA080yyyy HZ	8.0V	100 to 2800	1%	±1%	±5%	±5%
SPA085yyyy HZ	8.5V	100 to 2700	1%	±1%	±5%	±5%
SPA090yyyy HZ	9.0V	100 to 2600	1%	±1%	±5%	±5%
SPA095yyyy HZ	9.5V	100 to 2500	1%	±1%	±5%	±5%
SPA100yyyy HZ	10.0V	100 to 2300	1%	±1%	±5%	±5%
SPA105yyyy HZ	10.5V	100 to 2250	1%	±1%	±5%	±5%
SPA110yyyy HZ	11.0V	100 to 2150	1%	±1%	±5%	±5%
SPA115yyyy HZ	11.5V	100 to 2050	1%	±1%	±5%	±5%
SPA120yyyy HZ	12.0V	100 to 2000	1%	±1%	±5%	±5%
SPA125yyyy HZ	12.5V	100 to 1900	1%	±1%	±5%	±5%
SPA130yyyy HZ	13.0V	100 to 1800	1%	±1%	±5%	±5%
SPA135yyyy HZ	13.5V	100 to 1770	1%	±1%	±5%	±5%
SPA138yyyy HZ	13.8V	100 to 1700	1%	±1%	±5%	±5%
SPA140yyyy HZ	14.0V	100 to 1650	1%	±1%	±5%	±5%
SPA145yyyy HZ		100 to 1650	1%	±1%	±5%	±5%
SPA150yyyy HZ	15.0V	100 to 1600	1%	±1%	±5%	±5%
SPA155yyyy HZ	15.5V	100 to 1500	1%	±1%	±5%	±5%
SPA160yyyy HZ	16.0V	100 to 1500	1%	±1%	±5%	±5%
SPA165yyyy HZ		100 to 1450	1%	±1%	±5%	±5%
SPA170yyyy HZ		100 to 1400	1%	±1%	±5%	±5%
SPA175yyyy HZ		100 to 1350	1%	±1%	±5%	±5%
SPA180yyyy HZ		100 to 1300	1%	±1%	±5%	±5%
SPA185yyyy HZ		100 to 1250	1%	±1%	±5%	±5%
SPA190yyyy HZ		100 to 1250	1%	±1%	±5%	±5%
SPA195yyyy HZ		100 to 1200	1%	±1%	±5%	±5%
SPA200yyyy HZ		100 to 1200	1%	±1%	±5%	±5%
SPA205yyyy HZ		100 to 1150	1%	±1%	±5%	±5%
SPA210yyyy HZ		100 to 1100	1%	±1%	±5%	±5%
SPA215yyyy HZ		100 to 1100	1%	±1%	±5%	±5%
SPA220yyyy HZ		100 to 1090	1%	±1%	±5%	±5%
SPA225yyyy HZ	22.5V	100 to 1050	1%	±1%	±5%	±5%

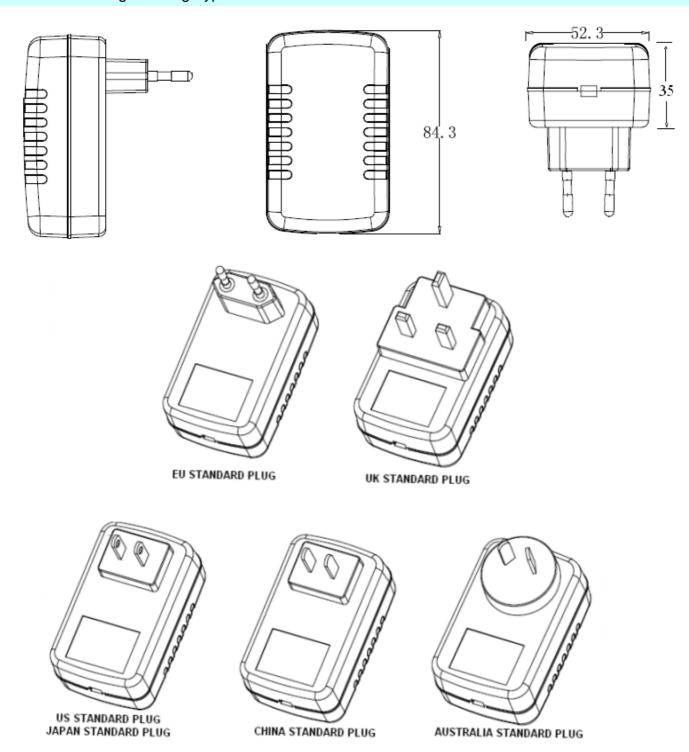
24W series AC to DC power supply SPA230yyyy HZ 23 0V 100 to 1000 1%

SPA235yyyy HZ 23.5V 100 to 1000 1% ±1% ±5% SPA240yyyy HZ 24.0V 100 to 1000 1% ±1% ±5% SPA245yyyy HZ 24.5V 100 to 950 1% ±1% ±5%	
SPA245yyyy HZ 24.5V 100 to 950 1% ±1% ±5% ±5%	
SPA250yyyy HZ 25.0V 100 to 950 1% ±1% ±5% ±5%	
SPA255yyyy HZ 25.5V 100 to 900 1% ±1% ±5% ±5%	
SPA260yyyy HZ 26.0V 100 to 900 1% ±1% ±5% ±5%	
SPA265yyyy HZ 26.5V 100 to 900 1% ±1% ±5% ±5%	
SPA270yyyy HZ 27.0V 100 to 860 1% ±1% ±5% ±5%	
SPA275yyyy HZ 27.5V 100 to 850 1% ±1% ±5% ±5%	
SPA280yyyy HZ 28.0V 100 to 840 1% ±1% ±5% ±5%	
SPA285yyyy HZ 28.5V 100 to 830 1% ±1% ±5% ±5%	
SPA290yyyy HZ 29.0V 100 to 820 1% ±1% ±5% ±5%	
SPA295yyyy HZ 29.5V 100 to 810 1% ±1% ±5% ±5%	
SPA300yyyy HZ 30.0V 100 to 800 1% ±1% ±5% ±5%	
SPA305yyyy HZ 30.5V 100 to 750 1% ±1% ±5% ±5%	
SPA310yyyy HZ 31.0V 100 to 750 1% ±1% ±5% ±5%	
SPA315yyyy HZ 31.5V 100 to 750 1% ±1% ±5% ±5%	
SPA320yyyy HZ 32.0V 100 to 740 1% ±1% ±5% ±5%	
SPA325yyyy HZ 32.5V 100 to 730 1% ±1% ±5% ±5%	
SPA330yyyy HZ 33.0V 100 to 720 1% ±1% ±5% ±5%	
SPA335yyyy HZ 33.5V 100 to 710 1% ±1% ±5% ±5%	
SPA340yyyy HZ 34.0V 100 to 700 1% ±1% ±5% ±5%	
SPA345yyyy HZ 34.5V 100 to 680 1% ±1% ±5% ±5%	
SPA350yyyy HZ 35.0V 100 to 670 1% ±1% ±5% ±5%	
SPA355yyyy HZ 35.5V 100 to 660 1% ±1% ±5% ±5%	
SPA360yyyy HZ 36.0V 100 to 670 1% ±1% ±5% ±5%	

Wall mount

Definition of variables:

Variable :	Range of variable :	Content
XXX	030-360	3 digits, 10 times of output voltage in Voltage. eg : 030=3Vdc, 360=36Vdc
уууу	0100-4000	4 digits, 1 times of output current in Ampere eg: 0100=100mA, 4000=4000mA
	WB,WE, IB,IE, Blank, BS, EU	Represents the type of different enclosure for the product. (HZ=WB, represents the product is direct plug-in type, British plug; HZ=WE, represents the product is direct plug-in type, European plug; HZ=IB, represents the product is detachment type, British plug; HZ=IE, represents the product is detachment type, European plug; HZ=blank, represents the product is desk-top type, which has no AC power cord; HZ=BS, represents the product is cord to cord type, which has AC power cord, British plug; HZ=EU, represents the product is cord to cord type, which has AC power cord, European plug.)



Note: 1. All dimensions in mm.

2. Detail mechanical drawing upon request.

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