

800W Series single output switching power supply

S-800 Series



Features:

- AC input voltage range selected by switch
- Small volume, low weight, high efficiency
- Protections : short circuit/over load/over voltage/over temp
- Built-in cooling DC fan
- LED indicator for power on
- Can be used parallel connection
- 100% full load burn-in test
- 1 Year warranty

SPECIFICATION

Dimension: 247 × 127 × 63.5mm

Model		S-800-12	S-800-15	S-800-24	S-800-27	S-800-36	S-800-48	
Output	DC voltage	12V	15V	24V	27V	36V	48V	
	Voltage tolerance	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	
	Rated current	66A	53A	33A	29.5A	22A	16.5A	
	Current range	0 ~ 66A	0 ~ 53A	0 ~ 33A	0 ~ 29.5A	0 ~ 22A	0 ~ 16.5A	
	Rated power	792W	795W	792W	796W	792W	792W	
	Ripple&noise	200mVp-p	200mVp-p	240mVp-p	240mVp-p	300mVp-p	300mVp-p	
	DC voltage ADJ. range	-9% ~ +10%	± 10%	± 10%	-9% ~ +10%	± 10%	± 10%	
Setup, rise, hold up time	1000ms,50ms,20ms/230VAC							
Input	Voltage range	95~132VAC 180 ~ 264VAC 47 ~ 63Hz, (Selected by switch) 254 ~ 373VDC						
	AC current	16A/115V 8A/230VAC						
	Efficiency	80%	81%	84%	82%	83%	84%	
	Inrush current	Cold start 25A/115V 50A/230VAC						
	leakage current	< 3.5mA/240VAC						
Protection	Overload	Rated output power 115% ~ 135% Start overload protection						
		protection type: cutoff output, recovery after restart power						
	Over voltage	15.6 ~ 17.8V	18.6 ~ 20.8V	30.6 ~ 33.2V	33.2 ~ 35.6V	42.6 ~ 44.2V	54.8 ~ 56.6V	
Over temperature	≥85°C ± 5°C(TSW1 detect on heatsink of power transistor)							
	Protection mode: cutoff output, auto-recovery after temperature become normal							
Environment	Working temp, humidity	-10°C ~ +60°C; 20% ~ 90%RH (Please refer to "derating curve")						
	Storage temp, humidity	-20°C ~ +85°C; 10% ~ 95%RH Non-condensing						
	Withstand vibration	10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes						
Safety	Withstand voltage	I/P-O/P: 1.5KVAC 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						
Fit standard	Safety standard	Fit UL1012						
	EMC Standard	Fit EN55022, CLASSA						
Others	Dimension	2.1kg 247*127*63.5 (L*W*H)						
	Weight	2.1kg/9pcs/20kg/1.04CUFT						

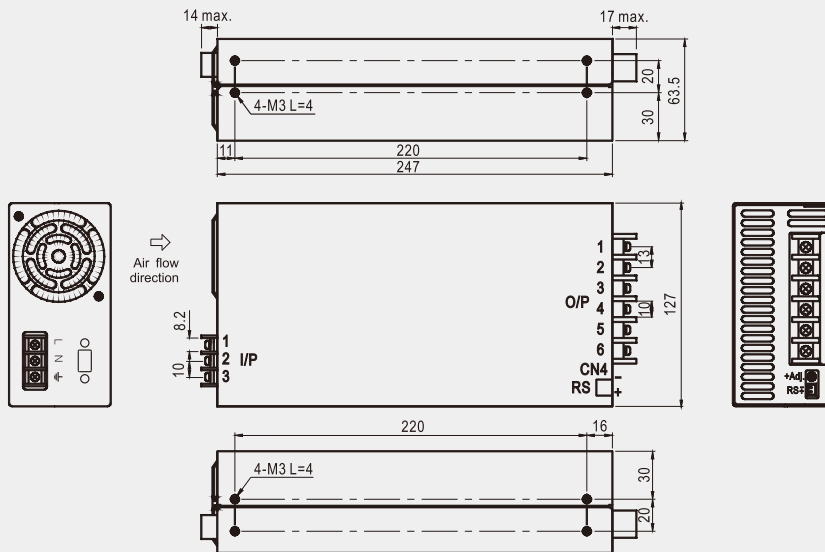
Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

3. Tolerance : includes set up tolerance, line regulation and load regulation.

Mechanical specification

Unit:mm



AC input terminal

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG \perp

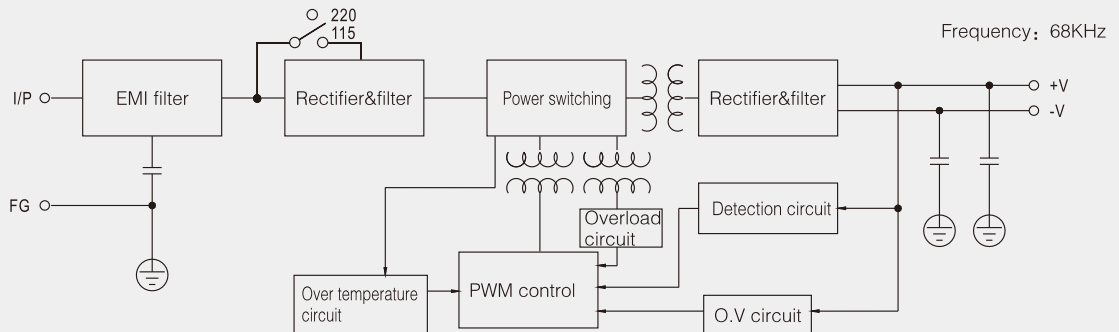
DC output terminal

Pin No.	Assignment
1~3	+V
4~6	-V

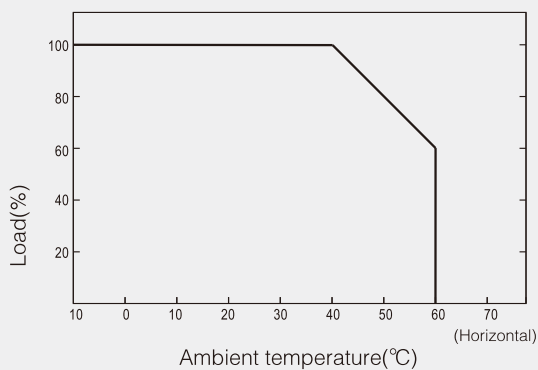
RS connector(CN4); JST B-XH or equivalent

Pin No.	Assignment	mating housing	terminal
1	+S	JST XHP or equivalent	JST SXH-001T or equivalent
2	-S		

Block diagram



Derating curve



Static characteristic

