



# 600W Single Output Power Supply

# SE-600 series



### Features :

- AC input active surge current limiting
- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density 4.9w/in<sup>3</sup>
- Built-in remote sense function
- UL approved
- Low cost
- 2 years warranty

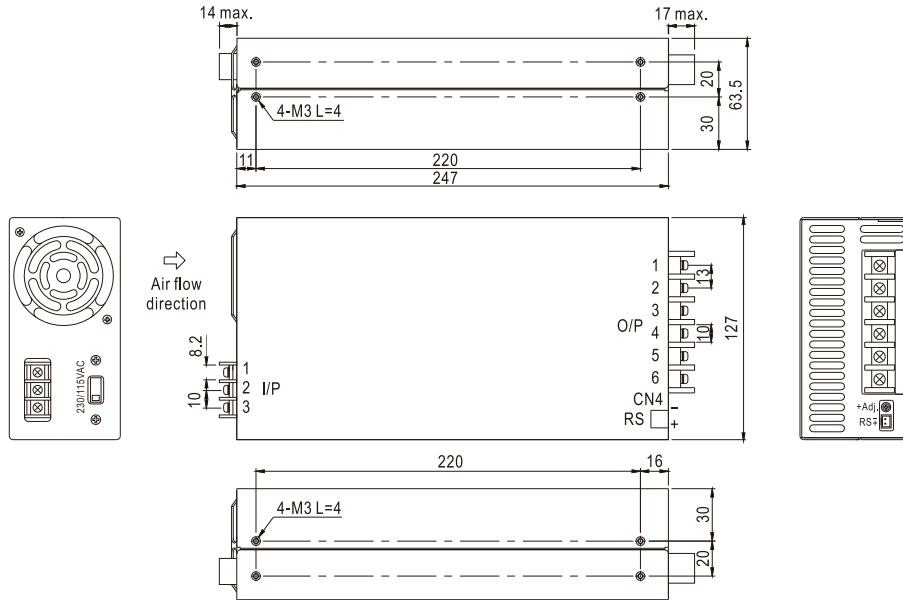


### SPECIFICATION

MODEL	SE-600-5	SE-600-12	SE-600-15	SE-600-24	SE-600-27	SE-600-36	SE-600-48		
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	36V	48V	
	RATED CURRENT	100A	50A	40A	25A	22.2A	16.6A	12.5A	
	CURRENT RANGE	0 ~ 100A	0 ~ 50A	0 ~ 40A	0 ~ 25A	0 ~ 22.2A	0 ~ 16.6A	0 ~ 12.5A	
	RATED POWER	500W	600W	600W	600W	599.4W	597.6W	600W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	22 ~ 26.4V	24 ~ 30V	32 ~ 40V	43 ~ 56V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1000ms, 50ms/230VAC		1000ms, 50ms/115VAC at full load					
HOLD UP TIME (Typ.)	20ms/230VAC		16ms/115VAC at full load						
PROTECTION	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC selected by switch			254 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	78%	83%	84%	87%	87%	87%	88%	
	AC CURRENT (Typ.)	12A/115VAC	7.5A/230VAC						
	INRUSH CURRENT (Typ.)	30A/115VAC	60A/230VAC						
	LEAKAGE CURRENT	<2.0mA / 240VAC							
PROTECTION	OVERLOAD	105 ~ 125% rated output power Protection type : Shut down o/p voltage, re-power on to recover							
	OVER VOLTAGE	5.75 ~ 6.3V	13.8 ~ 16.2V	18 ~ 21V	27.6 ~ 32.4V	31 ~ 36.5V	42 ~ 50V	57.6 ~ 67.2V	
	OVER TEMPERATURE	85°C ±5°C (TSW1) detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down							
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)							
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL60950-1, UL62368-1, EAC TP TC 004, BSMI CNS14336-1, KC K60950-1 (for 12V, 24V only) approved							
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC	I/P-FG: 1.5KVAC	O/P-FG: 0.5KVAC					
OTHERS	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC							
	MTBF	197K hrs min.	MIL-HDBK-217F (25°C)						
	DIMENSION	247*127*63.5mm (L*W*H)							
NOTE	PACKING	2.1Kg; 6pcs/13.4Kg/1.03CUFT							
	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. 4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m (6500ft). 5. This power supply does not meet the harmonic current requirements outlined by EN61000-3-2. Please do not use this power supply under the following conditions: a) the end-devices is used within the European Union, and b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and c) the power supply is: - installed in end-devices with average or continuous input power greater than 75W, or - belong to part of a lighting system Exception: Power supplies used within the following end-devices do not need to fulfill EN61000-3-2 a) professional equipment with a total rated input power greater than 1000W; b) symmetrically controlled heating elements with a rated power less than or equal to 200W							

**Mechanical Specification**

Case No. 926A Unit:mm



AC input terminal :

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

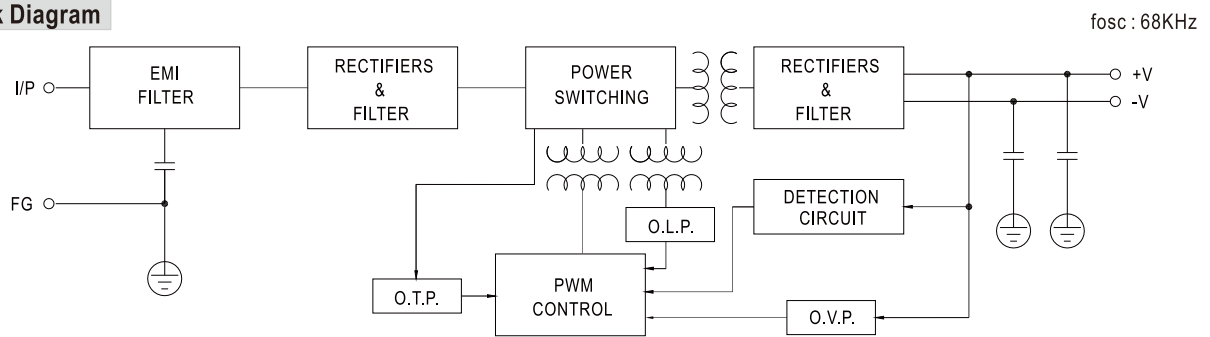
DC Output terminal :

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

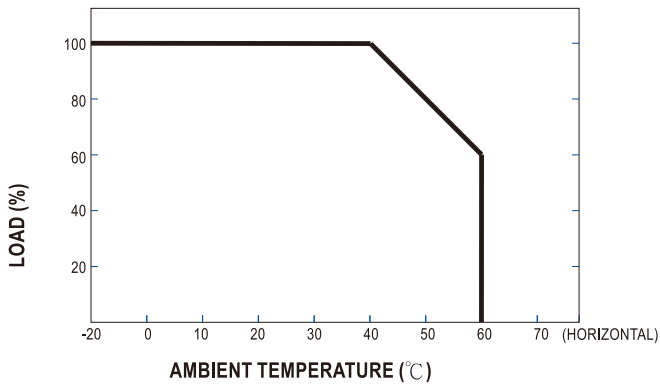
RS Connector (CN4) : JST B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+S	JST XHP or equivalent	JST SXH-001T or equivalent
2	-S		

**Block Diagram**



**Derating Curve**



**Static Characteristics**

