



## MEAN WELL SE-600-5 Single Output Power Supply Owner's Manual

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### MEAN WELL SE-600-5 Single Output Power Supply



## 600W Single Output Power Supply – SE-600 Series

The SE-600 series power supply is a reliable and efficient product that provides a single output of up to 600W. It is designed to meet safety standards such as IS 15885(Part 2/Sec13) and K60950-1, except for the 48V model which is not included. The 12V and 24V models also comply with IEC62368-1 (Note.5).

### Specifications

- 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
  - Rated Current: 100A, 50A, 40A, 25A
  - Current Range: 0~100A, 0~50A, 0~40A, 0~25A
  - Rated Power: 500W (for SE-600-5), 600W (for all other models)
  - Ripple & Noise (max.): 150mVp-p (for all models)
  - Voltage Adj. Range: 4.75~5.5V (for SE-600-5), 10~13.5V (for SE-600-12), 13.5~16.5V and 22~26.4V (for SE-600-15 and SE-600-24 respectively)
  - Line Regulation, Load Regulation, Setup, Rise Time: Refer to user manual
  - Hold Up Time (Typ.): 20ms/230VAC, 16ms/115VAC at full load
  - Voltage Range: 90~132VAC / 180~264VAC selected by switch or 254~370VDC
  - Frequency Range: 47~63Hz
- Input:
  - Efficiency (Typ.): 78% (for SE-600-5), 83% (for SE-600-12), 84% (for SE-600-15), 87% (for all other models)
  - AC Current (Typ.): 12A/115VAC, 7.5A/230VAC
  - Inrush Current (Typ.): 30A/115VAC, 60A/230VAC
  - Leakage Current: Refer to user manual

### Product Usage Instructions

1. Before use, ensure that the input voltage range is set correctly according to your local power supply specifications. Use the switch to select between 90~132VAC / 180~264VAC or 254~370VDC as appropriate.
2. Connect the power supply to your device using appropriate cables and connectors. Ensure that the polarity is correct to avoid damage to your device.
3. Adjust the output voltage as required using the voltage adjustment range specified for your model in the specifications section of the user manual.
4. Power on your device and monitor the output voltage to ensure that it remains within the specified range. If there are any issues, refer to the troubleshooting section of the user manual or contact customer support for assistance.
5. When not in use, turn off the power supply and disconnect it from your device to avoid unnecessary power consumption and potential damage to your device.

### 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'
- Built-in remote sense function
- UL approved
- Low cost
- 2 years warranty

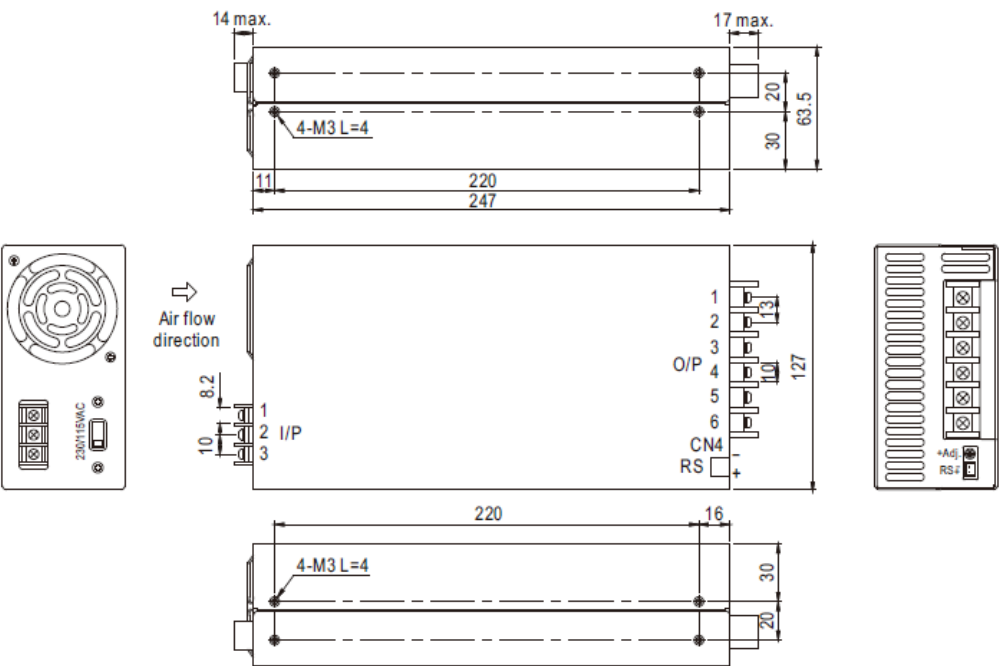
## SPECIFICATION

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						
INPUT	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
		Protection type : Shut down o/p voltage, re-power on to recover						
	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)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS	CB IEC62368-1, UL60950-1,UL62368-1, EAC TP TC 004, BSMI CNS14336-1, KC K60950-1(for 12V,24V only), <div></div>						
		IS13252(Part1)/IEC60950-1(except for 48V) approved; Design refer to BS EN/EN 62368-1						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC   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						
OTHERS	MTBF	1529.1K hrs min.                  Telcordia TR/SR-332 (Bell core) ; 204.2K hrs min.                  MIL-HDBK-217F (25°C)						
	DIMENSION	247*127*63.5mm (L*W*H)						

	<b>PACKING</b>	2.1Kg; 6pcs/13.4Kg/1.03CUFT
<b>NOTE</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 of &amp; 47uf parallel capacitor.</li> <li>3. Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>4. The ambient temperature derating of 3.5°C/1000m with finless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> <li>5. This power supply does not meet the harmonic current requirements outlined by BS EN/EN61000-3-2. Please do not use this power supply under the following conditions: <ul style="list-style-type: none"> <li>• the end-devices is used within the European Union, and</li> <li>• the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and</li> <li>• the power supply is: <ul style="list-style-type: none"> <li>◦ installed in end-devices with average or continuous input power greater than 75W, or</li> <li>◦ belong to part of a lighting system</li> </ul> </li> </ul> <p>Exception Power supplies used within the following end-devices do not need to fulfill BS EN/EN61000-3-2</p> <ul style="list-style-type: none"> <li>• professional equipment with a total rated input power greater than 1000W;</li> <li>• symmetrically controlled heating elements with a rated power less than or equal to 200W</li> </ul> <p>Product Liability Disclaimer: For detailed information. please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> </li></ol>	

Mechanical Specification



AC input terminal

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

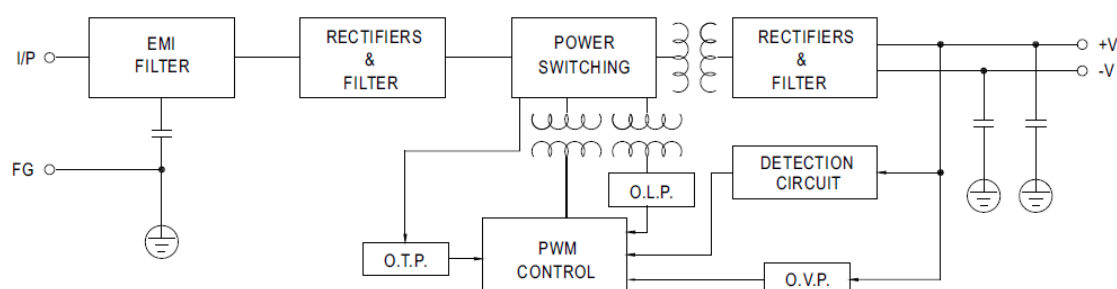
#### DC Output terminal :

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

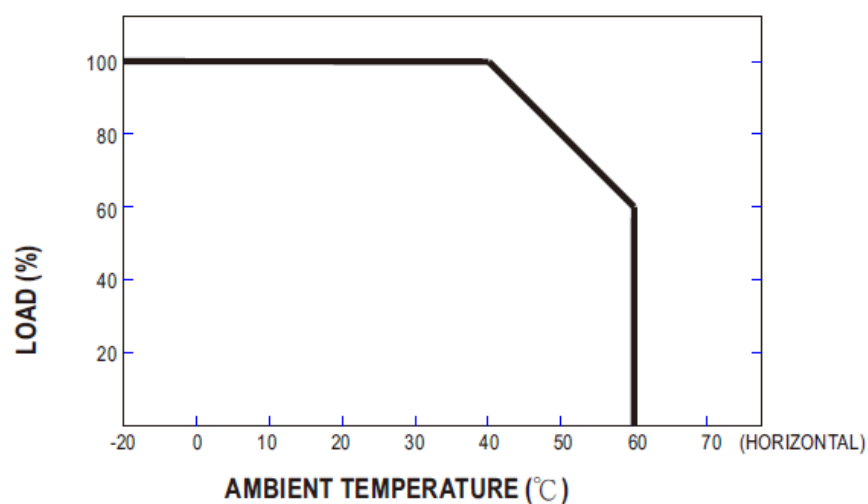
#### RS Connector (CN4) : JST B-XH or equivalent

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

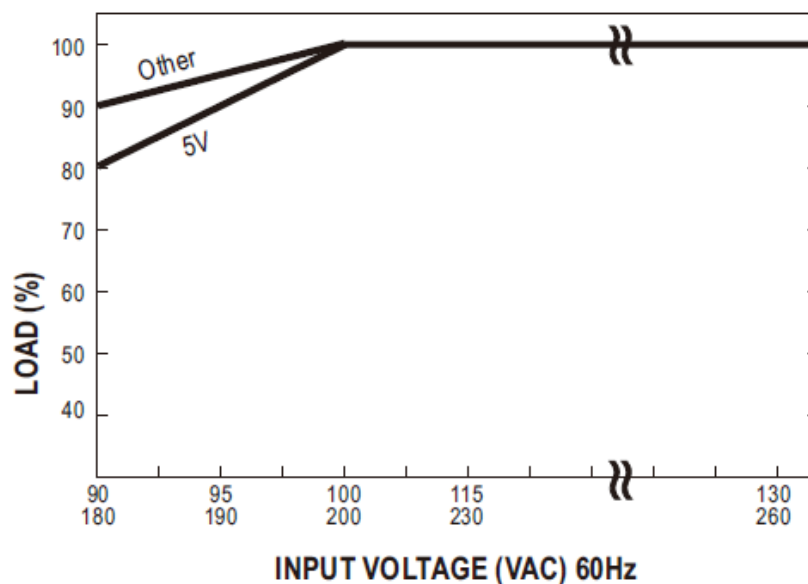
#### • Block Diagram



#### • Derating Curve



#### • Static Characteristics



Made in China

IS 15885(Part 2/Sec13)  
  
 R-41027766  
 (except for 48V)

**CB**  
 IEC62368-1

  
 K60950-1  
 (for 12V, 24V only)


  
 R33100  
 RoHS

**EAC**

**cULUS**

**CE UK CA**  
 (Note.5)

## Documents / Resources

	<p><a href="#">MEAN WELL SE-600-5 Single Output Power Supply</a> [pdf] Owner's Manual          SE-600-5 Single Output Power Supply, SE-600-5, Single Output Power Supply, Output Power Supply, Power Supply, Supply</p>
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## References

- [Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)
- [Global Trade Item Number \(GTIN\)-MEAN WELL Switching Power Supply Manufacturer](#)