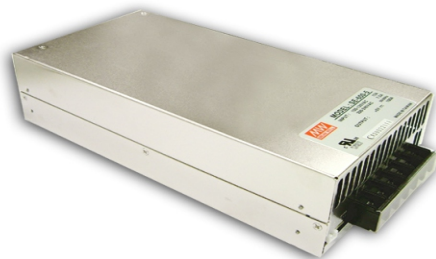




## 600W Single Output Power Supply

## 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

User's Manual



### ■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

IS 15885 (Part 2/Sec13)



R-41027766  
(except for 48V)



IEC62368-1



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



R33100  
RoHS



EAC



c



us



(Note.5)



UK

### SPECIFICATION

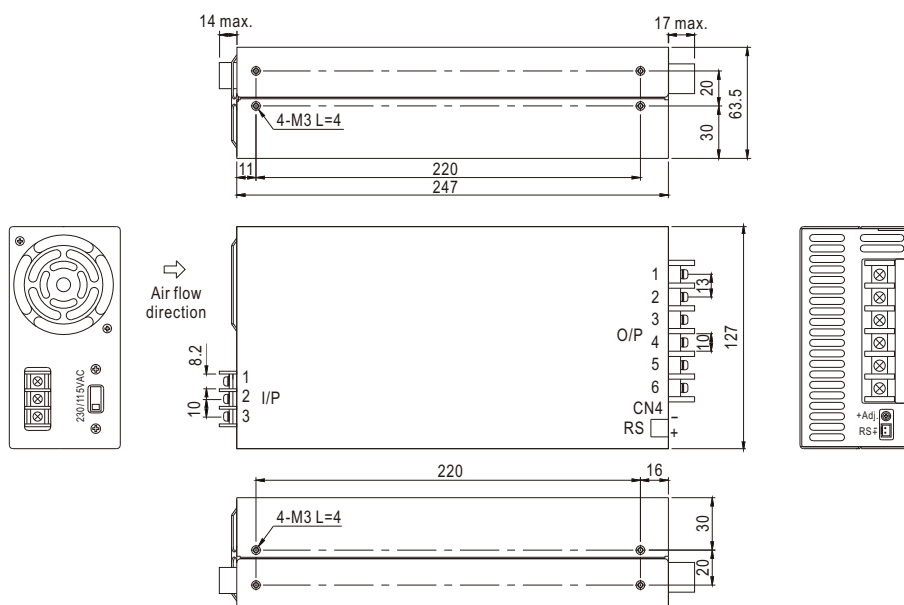
| MODEL               |                                           | SE-600-5                                                                                                                                                                                | SE-600-12    | SE-600-15    | SE-600-24    | SE-600-27  | 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<br>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℃±5℃ (TSW1) detect on heatsink of power transistor<br>Protection type : Shut down o/p voltage, recovers automatically after temperature goes down                                     |              |              |              |            |           |              |
| ENVIRONMENT         | WORKING TEMP.                             | -20 ~ +60℃ (Refer to output load derating curve)                                                                                                                                        |              |              |              |            |           |              |
|                     | WORKING HUMIDITY                          | 20 ~ 90% RH non-condensing                                                                                                                                                              |              |              |              |            |           |              |
|                     | STORAGE TEMP., HUMIDITY                   | -40 ~ +85℃, 10 ~ 95% RH                                                                                                                                                                 |              |              |              |            |           |              |
|                     | TEMP. COEFFICIENT                         | ±0.05%/℃ (0 ~ 50℃)                                                                                                                                                                      |              |              |              |            |           |              |
|                     | 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), IS13252(Part1)/IEC60950-1(except for 48V) approved; Design refer to BS EN/EN62368-1 |              |              |              |            |           |              |
|                     | 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 (Bellcore);    204.2K hrs min.    MIL-HDBK-217F (25℃)                                                                                           |              |              |              |            |           |              |
|                     | DIMENSION                                 | 247*127*63.5mm (L*W*H)                                                                                                                                                                  |              |              |              |            |           |              |
|                     | 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 BS EN/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 systemException:  
Power supplies used within the following end-devices do not need to fulfill BS EN/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
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

## Mechanical Specification

Case No. 926A Unit:mm



AC input terminal :

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

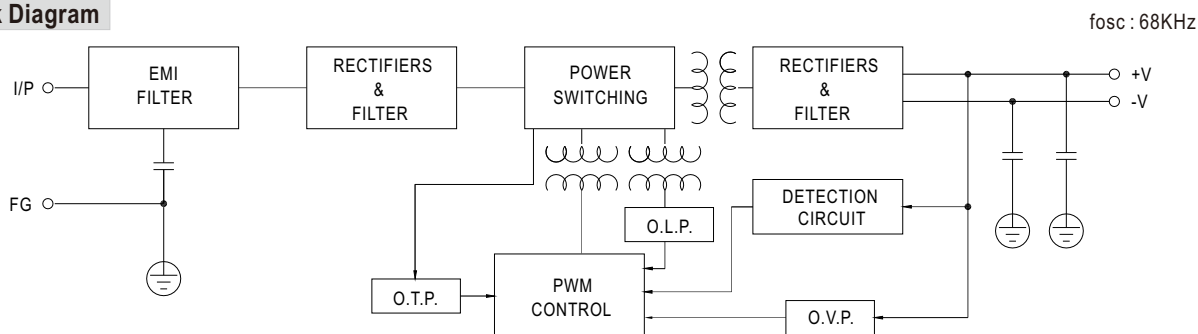
DC Output terminal :

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

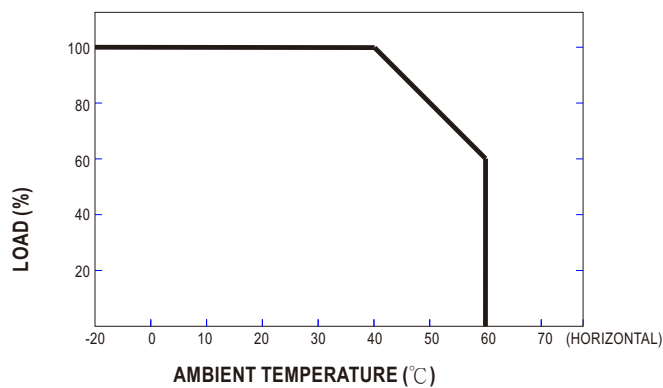
RS Connector (CN4) : JST B-XH or equivalent

| 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

