



■ 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 ball bearing fan
- High power density 7.3w/inch<sup>3</sup>
- With DC\_OK signal output
- Built-in remote ON-OFF control
- Built-in remote sense function
- UL / CUL approved
- Low cost
- 2 years warranty



■ GTIN CODE

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



SPECIFICATION

| MODEL                          | SE-1000-5                               | SE-1000-9  | SE-1000-12                        | SE-1000-15   | SE-1000-24                              | SE-1000-48        |              |
|--------------------------------|---|--|-----------------------------------|--|---|-------------------|--------------|
| OUTPUT                         | DC VOLTAGE                              | 5V   | 9V                                | 12V  | 15V                                     | 24V               | 48V          |
|                                | RATED CURRENT                           | 150A   | 100A                              | 83.3A  | 66.7A                                   | 41.7A             | 20.8A        |
|                                | CURRENT RANGE                           | 0 ~ 150A   | 0 ~ 100A                          | 0 ~ 83.3A  | 0 ~ 66.7A                               | 0 ~ 41.7A         | 0 ~ 20.8A    |
|                                | RATED POWER                             | 750W   | 900W                              | 999.6W   | 1000.5W                                 | 1000.8W           | 998.4W       |
|                                | RIPPLE & NOISE (max.) Note.2            | 150mVp-p   | 150mVp-p                          | 150mVp-p   | 150mVp-p                                | 200mVp-p          | 200mVp-p     |
|                                | VOLTAGE ADJ. RANGE                      | 3.3 ~ 5.5V   | 7.5 ~ 10V                         | 10 ~ 13.5V   | 13.5 ~ 16.5V                            | 22 ~ 27.5V        | 43 ~ 56V     |
|                                | VOLTAGE TOLERANCE Note.3                | ±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%        |
|                                | LOAD REGULATION                         | ±1.0%  | ±0.5%                             | ±0.5%  | ±0.5%                                   | ±0.5%             | ±0.5%        |
|                                | SETUP, RISE TIME                        | 1500ms, 50ms/230VAC    1500ms, 50ms/115VAC at full load  |                                   |  |   |                   |              |
| HOLD UP TIME (Typ.)            | 20ms/230VAC    15ms/115VAC at full load |  |                                   |  |   |                   |              |
| INPUT                          | VOLTAGE RANGE                           | 90 ~ 132VAC / 180 ~ 264VAC selected by TB2    254 ~ 370VDC   |                                   |  |   |                   |              |
|                                | FREQUENCY RANGE                         | 47 ~ 63Hz  |                                   |  |   |                   |              |
|                                | EFFICIENCY (Typ.)                       | 81%  | 84%                               | 85%  | 86%                                     | 88%               | 89%          |
|                                | AC CURRENT (Typ.)                       | 17.5A/115VAC    10A/230VAC   |                                   |  |   |                   |              |
|                                | INRUSH CURRENT (Typ.)                   | 35A/115VAC    55A/230VAC   |                                   |  |   |                   |              |
| LEAKAGE CURRENT                | <2.5mA / 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 ~ 6.75V   | 10.4 ~ 12.2V                      | 13.8 ~ 16.2V   | 18 ~ 21V                                | 28 ~ 32.4V        | 57.6 ~ 67.2V |
|                                | OVER TEMPERATURE                        | Shut down o/p voltage, recovers automatically after temperature goes down<br>Protection type : Shut down o/p voltage, re-power on to recover |                                   |  |   |                   |              |
| FUNCTION                       | DC_OK SIGNAL                            | PSU turn on:3.3V ~ 5.6V    PUS turn off:0 ~ 1V   |                                   |  |   |                   |              |
|                                | REMOTE CONTROL                          | RC+/RC-: 0 ~ 0.8V power on; 4 ~ 10V power off  |                                   |  |   |                   |              |
| ENVIRONMENT                    | WORKING TEMP.                           | -20 ~ +60°C (Refer to "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 (Note 4)          | SAFETY STANDARDS                        | UL62368-1, BSMI CNS15598-1, EAC TP TC 004 approved; Design refer to BS EN/EN62368-1  |                                   |  |   |                   |              |
|                                | WITHSTAND VOLTAGE                       | I/P-O/P:3KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC  |                                   |  |   |                   |              |
|                                | ISOLATION RESISTANCE                    | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH   |                                   |  |   |                   |              |
|                                | EMC EMISSION                            | Parameter  | Standard                          |  |   | Test Level / Note |              |
|                                |   | Conducted  | BS EN/EN55032 (CISPR32), CNS15936 |  |   | Class A           |              |
|                                |   | Radiated   | BS EN/EN55032 (CISPR32), CNS15936 |  |   | Class A           |              |
|                                |   | Harmonic Current   | BS EN/EN61000-3-2                 |  |   | -----             |              |
|                                | Voltage Flicker                         | BS EN/EN61000-3-3  |                                   |  | -----                                   |                   |              |
|                                | EMC IMMUNITY                            | BS EN/EN55035, BS EN/EN61000-6-2   |                                   |  |   |                   |              |
|                                |   | Parameter  | Standard                          |  |   | Test Level / Note |              |
| ESD                            |   | BS EN/EN61000-4-2  |                                   |  | Level 3, 8KV air ; Level 2, 4KV contact |                   |              |
| Radiated                       |   | BS EN/EN61000-4-3  |                                   |  | Level 3                                 |                   |              |
| EFT / Burst                    |   | BS EN/EN61000-4-4  |                                   |  | Level 3                                 |                   |              |
| Surge                          |   | BS EN/EN61000-6-2  |                                   |  | 2KV/Line-Line 4KV/Line-Earth            |                   |              |
| Conducted                      |   | BS EN/EN61000-4-6  |                                   |  | Level 3                                 |                   |              |
| Magnetic Field                 |   | BS EN/EN61000-4-8  |                                   |  | Level 4                                 |                   |              |
| Voltage Dips and Interruptions | BS EN/EN61000-4-11                      |  |                                   | >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods |   |                   |              |
| OTHERS                         | MTBF                                    | 1273.6K hrs min.    Telcordia SR-332 (Bellcore) ; 251.6K hrs min.    MIL-HDBK-217F (25°C)  |                                   |  |   |                   |              |
|                                | DIMENSION                               | 278*127*63.5mm (L*W*H)   |                                   |  |   |                   |              |
|                                | PACKING                                 | 2.5Kg; 6pcs/16Kg/1.38CUFT  |                                   |  |   |                   |              |

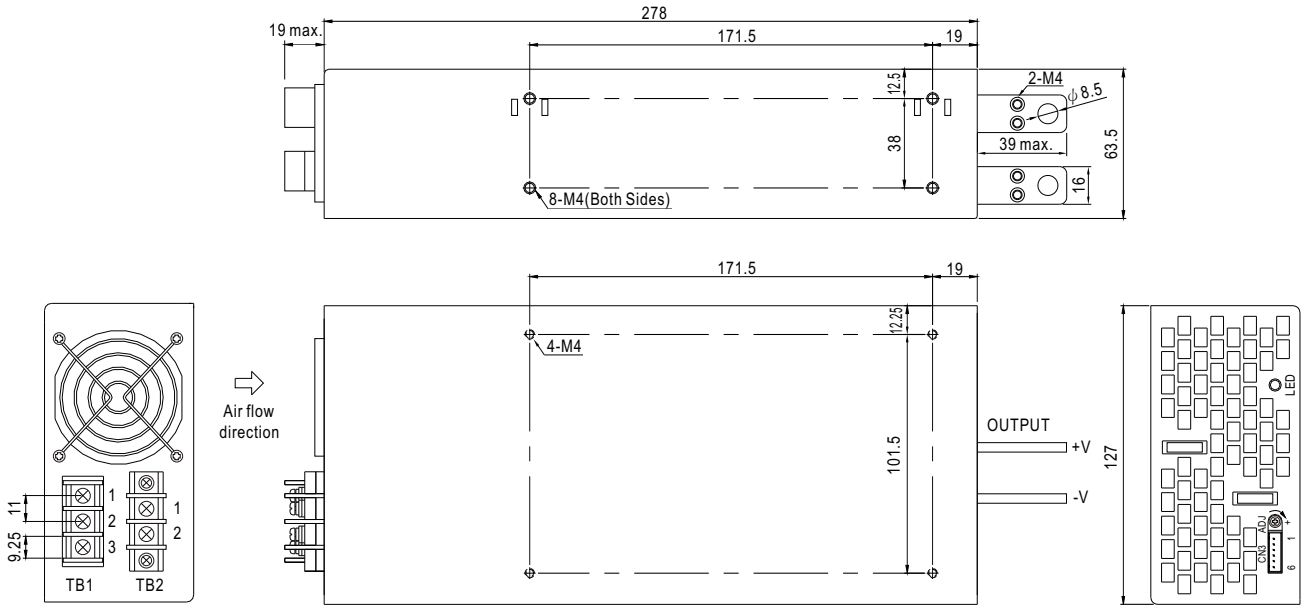
NOTE

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 power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 720mm\*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on [https://www.meanwell.com/Upload/PDF/EMI\\_statement\\_en.pdf](https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf))
5. By using UVP circuit, PSU will not turn on direct by in AC continue ON/OFF condition within 5 sec.
6. 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).
7. 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

※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

**Mechanical Specification**

Case No. 935B Unit:mm



TB1:AC input terminal

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

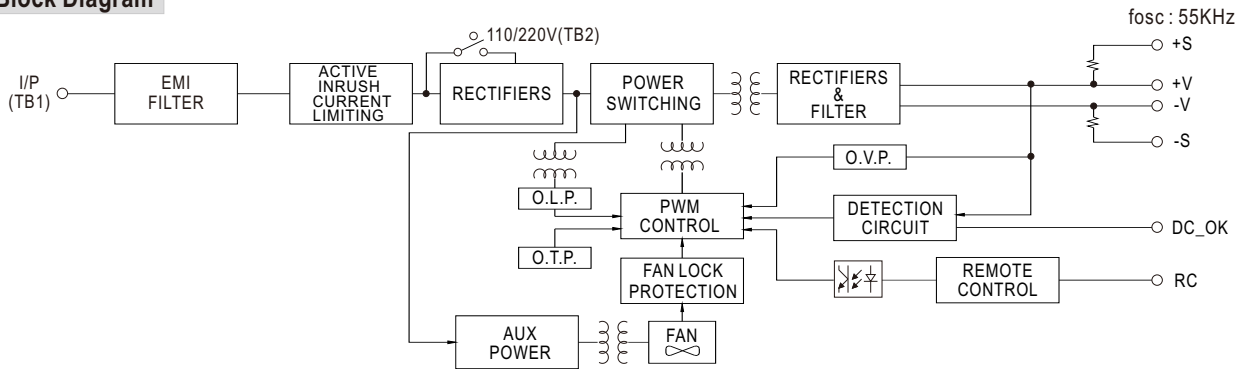
TB2:110/220V Change

| Pin No. | 110V  | 220V  |
|---------|-------|-------|
| 1       | Short | Open  |
| 2       | Open  | Short |

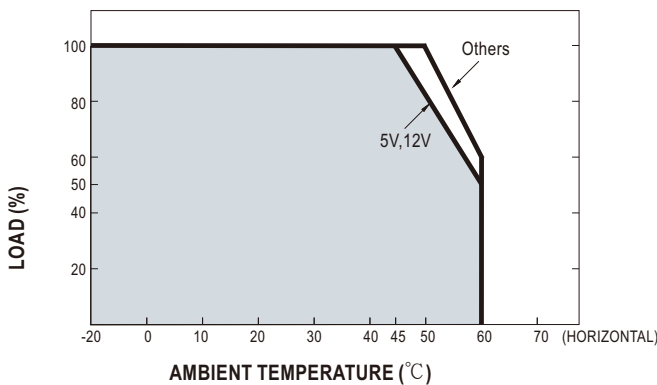
Control Pin (CN3) : JST B6B-XH or equivalent

| Pin No. | Assignment   | Pin No. | Assignment | Mating Housing        | Terminal                   |
|---------|--------------|---------|------------|-----------------------|----------------------------|
| 1       | DC_OK Signal | 4       | +S         | JST XHP or equivalent | JST SXH-001T or equivalent |
| 2       | DC_OK GND    | 5       | RC-        |                       |                            |
| 3       | -S           | 6       | RC+        |                       |                            |

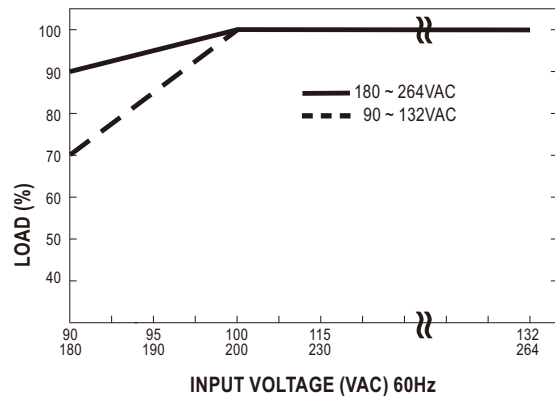
**Block Diagram**



**Derating Curve**



**Static Characteristics**



■ Mechanical Specification

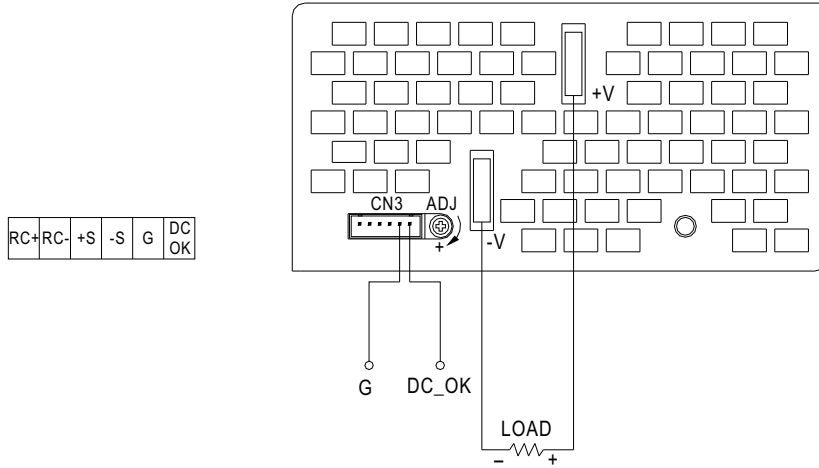
**DC\_OK Signal**

DC\_OK Signal is the voltage difference between "DC\_OK" and "G" pin output

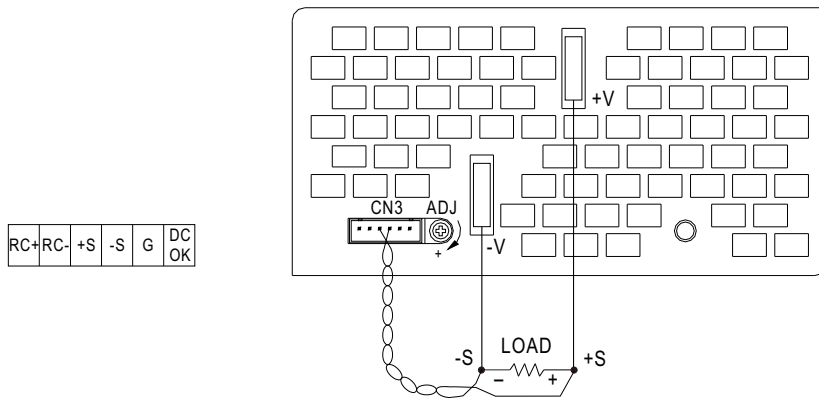
DC\_OK Signal is a TTL level signal

PSU turn on: 3.3 ~ 5.6V

PSU turn off: 0 ~ 1V



**Remote Sensing**



**Remote Control**

| Between RC+ and RC- | Output |
|---------------------|--------|
| SW OFF(0 ~ 0.8V)    | ON     |
| SW ON(4 ~ 10V)      | OFF    |

