



- Features :
- AC input 180 ~ 264VAC
 - AC input active surge current limiting
 - Protections: Short circuit / Overload / Over voltage / Over temperature
 - Forced air cooling by built-in DC ball bearing fan
 - High power density 7.8w/inch³
 - With DC OK signal output
 - Built-in remote ON-OFF control
 - Built-in remote sense function
 - UL / CUL approved
 - Low cost
 - 2 years warranty

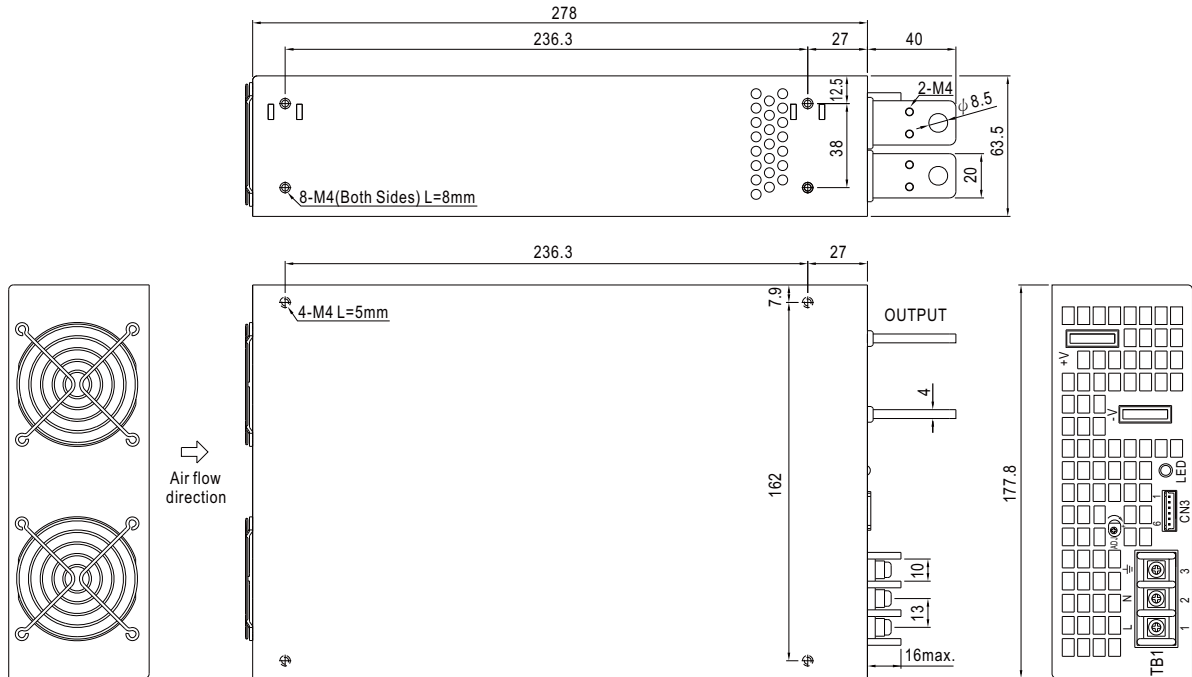


SPECIFICATION

| MODEL | SE-1500-5 | SE-1500-12 | SE-1500-15 | SE-1500-24 | SE-1500-27 | SE-1500-48 | | |
|-----------------------|---|--|-------------------------|--------------|--------------|---|-------------------|--|
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V | 27V | 48V | |
| | RATED CURRENT | 300A | 125A | 100A | 62.5A | 55.6A | 31.3A | |
| | CURRENT RANGE | 0 ~ 300A | 0 ~ 125A | 0 ~ 100A | 0 ~ 62.5A | 0 ~ 55.6A | 0 ~ 31.3A | |
| | RATED POWER | 1500W | 1500W | 1500W | 1500W | 1501.2W | 1502.4W | |
| | RIPPLE & NOISE (max.) Note.2 | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | |
| | VOLTAGE ADJ. RANGE | 3.3 ~ 5.5V | 10.8 ~ 13.5V | 13.5 ~ 16.5V | 21.6 ~ 26.4V | 25 ~ 30V | 43.2 ~ 56V | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±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 | ±2.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | SETUP, RISE TIME | 150ms, 12ms / 230VAC at full load | | | | | | |
| HOLD UP TIME (Typ.) | 26ms / 230VAC at full load | | | | | | | |
| INPUT | VOLTAGE RANGE | 180 ~ 264VAC | | 254 ~ 370VDC | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | |
| | EFFICIENCY (Typ.) | 81% | 85% | 85% | 87% | 88% | 89% | |
| | AC CURRENT (Typ.) | 17.5A / 230VAC | | | | | | |
| | INRUSH CURRENT (Typ.) | 60A / 230VAC | | | | | | |
| LEAKAGE CURRENT | <3.5mA / 240VAC | | | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 125% rated output power Protection type : Shut down o/p voltage, re-power on to recover | | | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V | 14.5 ~ 16.2V | 18 ~ 21V | 27.6 ~ 32.4V | 31 ~ 35V | 57.6 ~ 67.2V | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | |
| 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 ~ +70°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) | | | | | | |
| SAFETY & EMC (Note 4) | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | |
| | SAFETY STANDARDS | UL62368-1, BSMI CNS14336-1, EAC TP TC 004 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 / 25°C / 70% RH | | | | | | |
| | EMC EMISSION | Parameter | Standard | | | | Test Level / Note | |
| | | Conducted | BS EN/EN55032 (CISPR32) | | | | Class B | |
| | | Radiated | BS EN/EN55032 (CISPR32) | | | | Class A | |
| Harmonic Current | | BS EN/EN61000-3-2 | | | | ----- | | |
| EMC IMMUNITY | Voltage Flicker | BS EN/EN61000-3-3 | | | | ----- | | |
| | BS EN/EN55024, 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 | | | |
| OTHERS | MTBF | 333.3K hrs min. Telcordia SR-332 (Bellcore) ; 134.5K hrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | DIMENSION | 278*177.8*63.5mm (L*W*H) | | | | | | |
| PACKING | 3.3Kg; 4pcs/14.2Kg/1.14CUFT | | | | | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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 http://www.meanwell.com)</p> <p>5. 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).</p> <p>6. 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:</p> <p>a) the end-devices is used within the European Union, and</p> <p>b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and</p> <p>c) the power supply is:</p> <ul style="list-style-type: none"> - installed in end-devices with average or continuous input power greater than 75W, or - belong to part of a lighting system <p>Exception:</p> <p>Power supplies used within the following end-devices do not need to fulfill EN61000-3-2</p> <p>a) professional equipment with a total rated input power greater than 1000W;</p> <p>b) symmetrically controlled heating elements with a rated power less than or equal to 200W</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | | | | | |

Mechanical Specification

Case No.982A Unit:mm



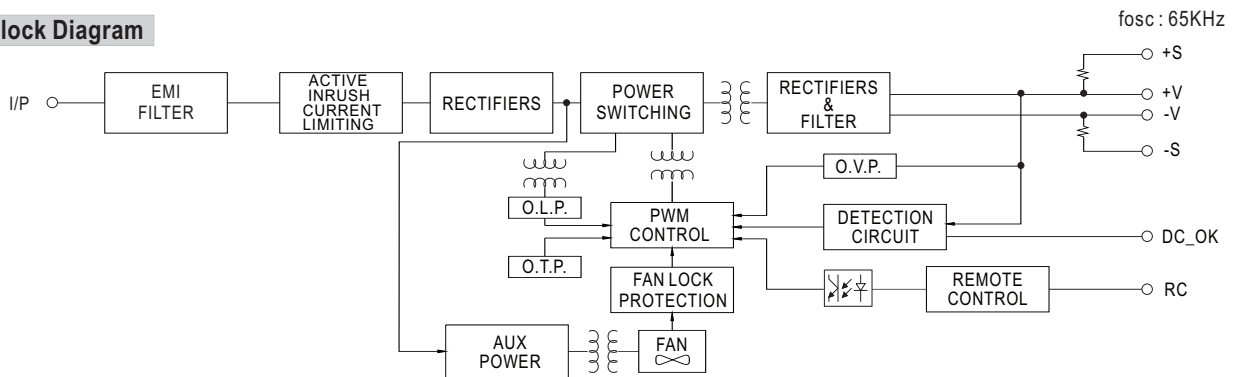
Terminal Pin No. Assignment :

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

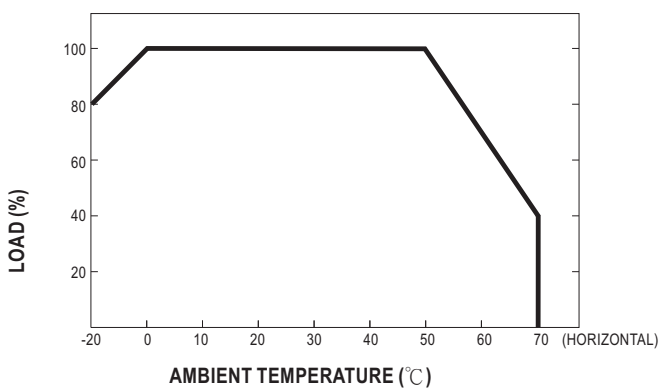
Control Pin (CN3) : JST B6B-XH or equivalent

| 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+ | | |

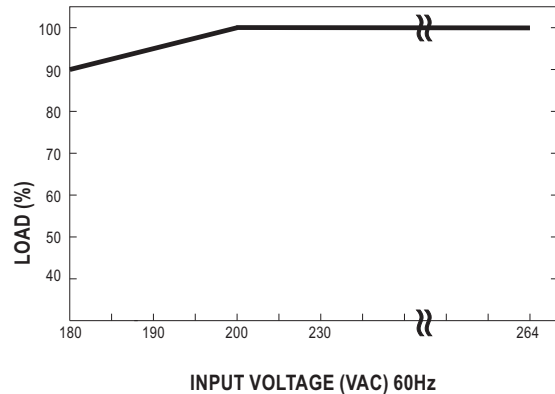
Block Diagram



Derating Curve



Static Characteristics



■ Function Description of CN3

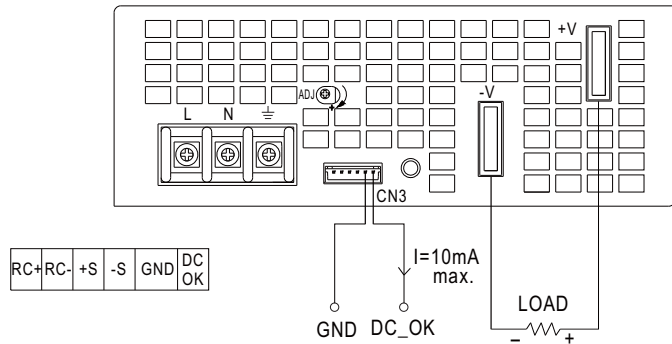
| Pin No. | Function | Description |
|---------|----------|---|
| 1 | DC_OK | DC_OK signal is a TTL level signal, referenced to pin2(DC_OK GND). "High" when PSU turns on. |
| 2 | GND | This pin connects to the negative terminal (-V). Return for DC_OK signal output. |
| 3 | -S | Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. |
| 4 | +S | Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. |
| 5 | RC- | Return for RC+ signal input. |
| 6 | RC+ | Turns the output on and off by electrical or dry contact between pin 6 (RC+) and pin 5 (RC-). 0~0.8V: Power ON, 4~10V: Power OFF. |

■ Function Manual

1. DC_OK Signal

DC_OK Signal is a TTL level signal. "High" when PSU turns on.

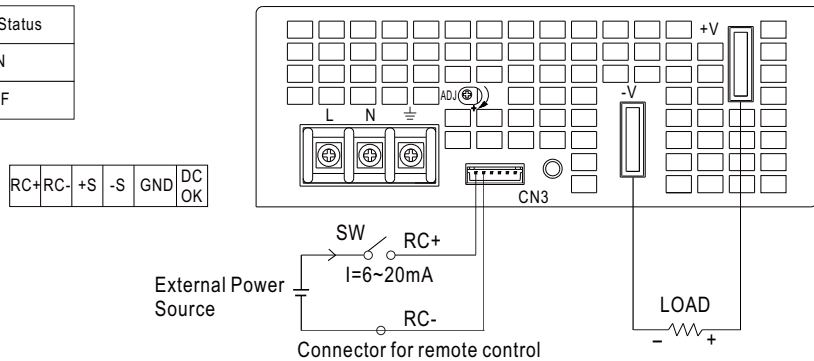
| Between DC_OK(pin1) and GND(pin2) | Output Status |
|-----------------------------------|---------------|
| 3.3 ~ 5.6V | ON |
| 0 ~ 1V | OFF |



2. Remote Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

| Between RC+(pin6) and RC-(pin5) | Output Status |
|---------------------------------|---------------|
| SW OFF (0 ~ 0.8V) | ON |
| SW ON (4 ~ 10V) | OFF |



3. Remote Sense

