



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Remote ON-OFF control(Optional)
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at PFC:67KHz PWM:134KHz
- 3 years warranty

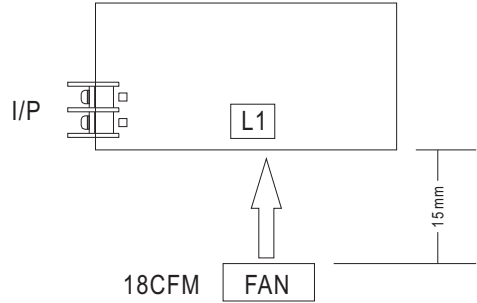
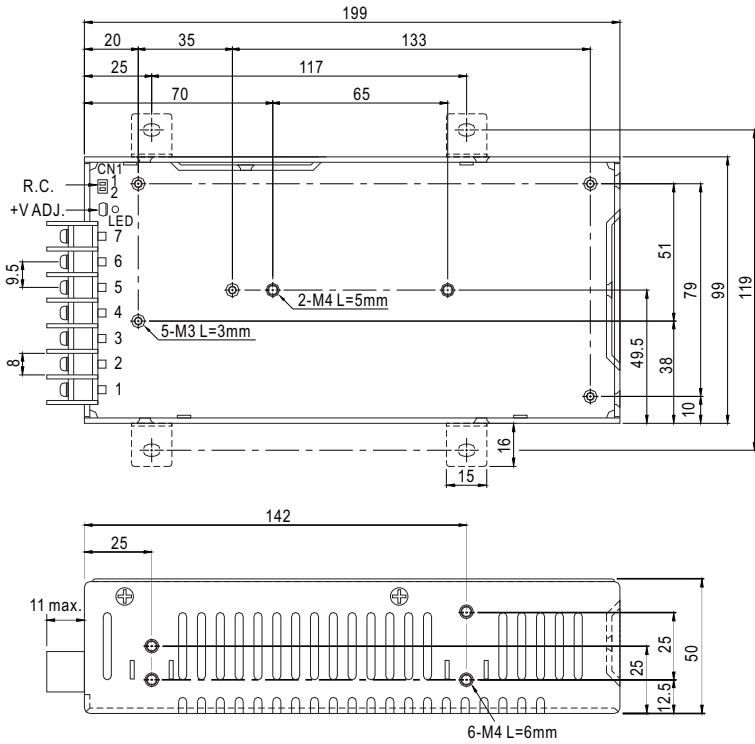


SPECIFICATION

| MODEL | | SP-150-3.3 | SP-150-5 | SP-150-7.5 | SP-150-12 | SP-150-13.5 | SP-150-15 | SP-150-24 | SP-150-27 | SP-150-48 | |
|-----------------------|---|---|-------------|---------------|--------------|----------------|-----------------------------|--------------|---------------|--------------|--|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 27V | 48V | |
| | RATED CURRENT | 30A | 30A | 20A | 12.5A | 11.2A | 10A | 6.3A | 5.6A | 3.2A | |
| | CURRENT RANGE | 0 ~ 30A | 0 ~ 30A | 0 ~ 20A | 0 ~ 12.5A | 0 ~ 11.2A | 0 ~ 10A | 0 ~ 6.3A | 0 ~ 5.6A | 0 ~ 3.2A | |
| | RATED POWER | 99W | 150W | 150W | 150W | 151.2W | 150W | 150W | 151.2W | 153.6W | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 150mVp-p | 150mVp-p | 250mVp-p | |
| | VOLTAGE ADJ. RANGE | 3.14 ~ 3.63V | 4.75 ~ 5.5V | 7.13 ~ 8.25V | 11.4 ~ 13.2V | 12.8 ~ 14.9V | 14.3 ~ 16.5V | 22.8 ~ 26.4V | 25.7 ~ 29.7V | 45.6 ~ 52.8V | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | SETUP, RISE TIME | 700ms, 40ms at full load | | | | | | | | | |
| HOLD UP TIME (Typ.) | 20ms at full load | | | | | | | | | | |
| INPUT | VOLTAGE RANGE Note.5 | 85 ~ 264VAC | | 120 ~ 370VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.93/230VAC | | | | | PF>0.97/115VAC at full load | | | | |
| | EFFICIENCY (Typ.) | 73% | 77.5% | 81% | 84% | 84% | 85% | 85% | 85% | 85% | |
| | AC CURRENT (Typ.) | 2.5A/115VAC | | 1.2A/230VAC | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 45A/230VAC | | | | | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | |
| | OVER VOLTAGE | 3.63 ~ 4.46V | 5.5 ~ 6.75V | 8.25 ~ 10.13V | 13.2 ~ 16.2V | 14.85 ~ 18.2V | 16.5 ~ 20.25V | 26.4 ~ 32.4V | 29.7 ~ 36.45V | 52.8 ~ 64.8V | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | |
| FUNCTION | REMOTE CONTROL(OPTION) | CN1:4 ~ 10VDC POWER ON, <0 ~ 0.8VDC POWER OFF | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +55°C (Refer to output load derating curve) | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +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 | UL60950-1, TUV EN60950-1 approved | | | | | | | | | |
| | 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 | Compliance to EN55022 (CISPR22) Class B, EN61000-3-2, -3 | | | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A | | | | | | | | | |
| OTHERS | MTBF | 191.2K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | DIMENSION | 199*99*50mm (L*W*H) | | | | | | | | | |
| | PACKING | 0.76Kg; 20pcs/16.4Kg/1.28CUFT | | | | | | | | | |
| 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 360mm*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. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> | | | | | | | | | | |

■ Mechanical Specification

Case No. 916A Unit:mm



Terminal Pin No. Assignment

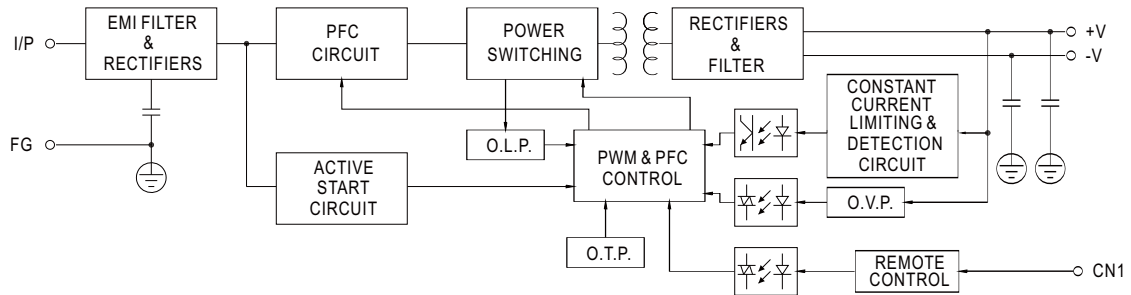
| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|--------------|
| 1 | AC/L | 4,5 | DC OUTPUT -V |
| 2 | AC/N | 6,7 | DC OUTPUT +V |
| 3 | FG \perp | | |

Remote ON/OFF (CN1): JST S2B-XH or equivalent (optional)

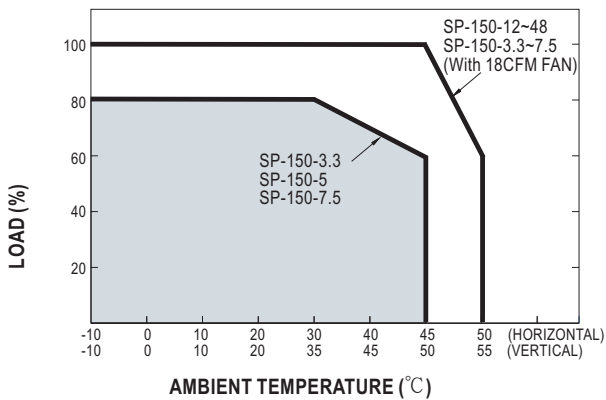
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|---------------------------------|
| 1 | RC+ | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2 | RC- | | |

■ Block Diagram

PFC fosc : 67KHz
PWM fosc : 134KHz



■ Derating Curve



■ Output Derating VS Input Voltage

