



■ Features :

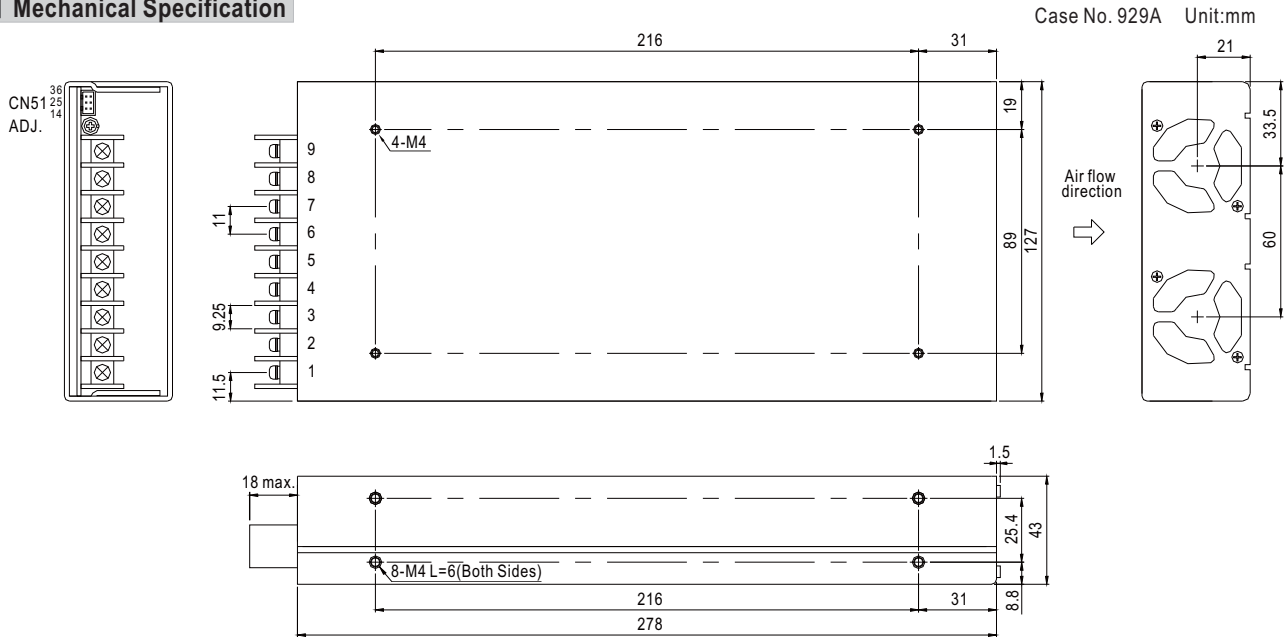
- Universal AC input / Full range
- Built in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density 5.18w/in³
- Low profile:43mm thickness
- Built-in remote ON-OFF control
- Built-in remote sense function
- Active AC surge current limiting
- 3 years warranty



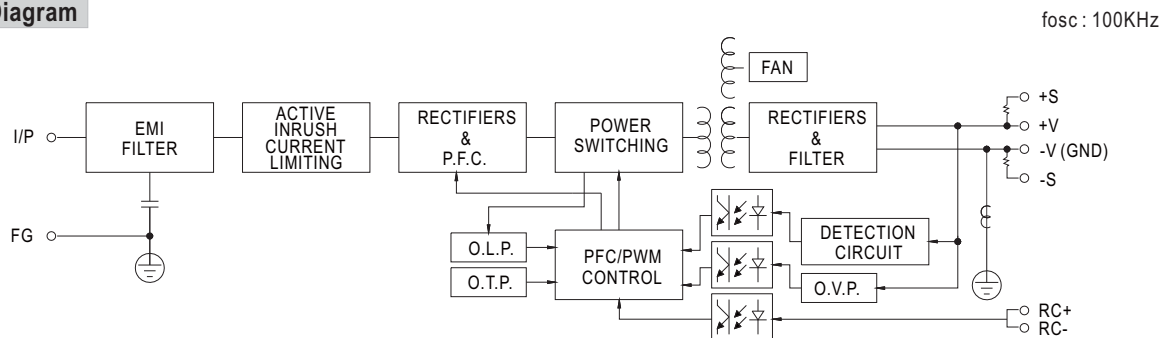
SPECIFICATION

| MODEL | | SP-480-3.3 | SP-480-5 | SP-480-12 | SP-480-15 | SP-480-24 | SP-480-48 |
|------------------------------|---|---|--------------|----------------|----------------|--------------|----------------|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 12V | 15V | 24V | 48V |
| | RATED CURRENT | 85A | 85A | 40A | 32A | 20A | 10A |
| | CURRENT RANGE | 0 ~ 85A | 0 ~ 85A | 0 ~ 43A | 0 ~ 35A | 0 ~ 22A | 0 ~ 11A |
| | RATED POWER | 280.5W | 425W | 480W | 480W | 480W | 480W |
| | PEAK LOAD(10min.) <small>Note.5</small> | 280.5W | 425W | 516W | 525W | 528W | 528W |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 80mVp-p | 80mVp-p | 120mVp-p | 150mVp-p | 150mVp-p | 240mVp-p |
| | VOLTAGE ADJ. RANGE | 2.9 ~ 3.6V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 13.5 ~ 18V | 22 ~ 27.6V | 41~ 56V |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±2.0% | ±2.0% | ±1.5% | ±1.5% | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.3% | ±0.3% | ±0.2% | ±0.2% |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| SETUP, RISE TIME | 1000ms, 80ms/230VAC 2500ms, 80ms/115VAC at full load | | | | | | |
| HOLD UP TIME (Typ.) | 18ms/230VAC 18ms/115VAC at full load | | | | | | |
| INPUT | VOLTAGE RANGE <small>Note.6</small> | 85 ~ 264VAC | 120 ~ 370VDC | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | POWER FACTOR (Typ.) | PF>0.95/230VAC PF>0.98/115VAC at full load | | | | | |
| | EFFICIENCY (Typ.) | 74% | 79% | 85% | 85% | 88% | 89% |
| | AC CURRENT (Typ.) | 6.5A/115VAC | 3.5A/230VAC | | | | |
| | INRUSH CURRENT (Typ.) | 20A/115VAC | 40A/230VAC | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | |
| PROTECTION | OVERLOAD | 87 ~ 103A | 87 ~ 103A | 45.15 ~ 58.05A | 36.75 ~ 47.25A | 23.1 ~ 29.7A | 11.55 ~ 14.85A |
| | | Protection type : Constant current limiting, recovers automatically after conditions is removed | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.45V | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 18 ~ 21V | 28.8 ~ 33.6V | 57.6 ~ 67.2V |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | | | | |
| | OVER TEMPERATURE <small>Note.4</small> | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | |
| FUNCTION | REMOTE CONTROL | RC+/RC-: 0 ~ 0.8V=power on ; 4 ~ 10V=power off | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60℃ (Refer to "Derating Curve") | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85℃, 10 ~ 95% RH non-condensing | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 50℃) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC (Note 7) | SAFETY STANDARDS | UL60950-1, TUV EN60950-1 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:Short | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3 | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), light industry level, criteria A | | | | | |
| OTHERS | MTBF | 120.5K hrs min. MIL-HDBK-217F (25℃) | | | | | |
| | DIMENSION | 278*127*43mm (L*W*H) | | | | | |
| | PACKING | 1.7Kg; 6pcs/11.3Kg/0.67CUFT | | | | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. TSW1: Detect on heatsink of power transistor. TSW2: Detect on heatsink of output diode. 5. 33% Duty cycle maximum within every 30 minute. Average output power should not exceed the rated power. 6. Derating may be needed under low input voltages. Please check the derating curve for more details. 7. 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) 8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). | | | | | | |

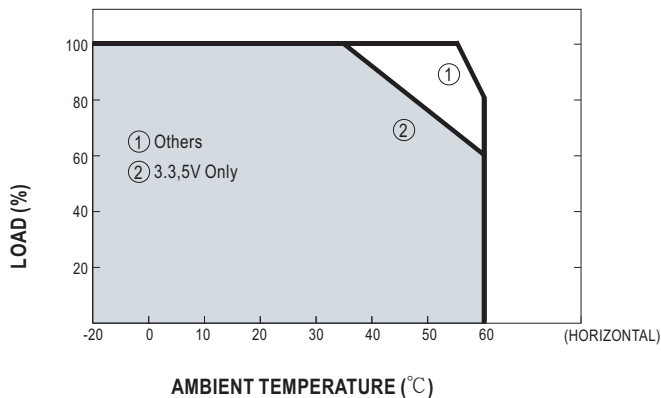
Mechanical Specification



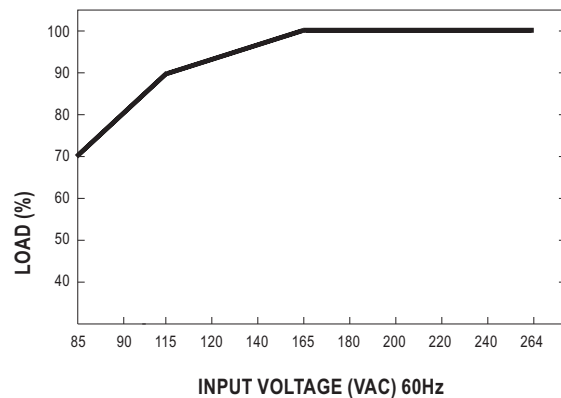
Block Diagram



Derating Curve

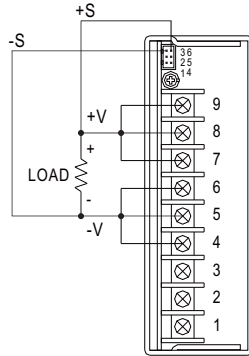


Static Characteristics



Control Terminal Instruction Manual

Remote Sensing



Remote Control

Power on : V is 0 ~ 0.8V

Power off : V is 4 ~ 10V

