



- 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<br>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 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 EN55032 (CISPR32) 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/1.21CUFT   |             |               |              |               |                             |              |               |              |  |
| NOTE                  | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> )<br>5. Derating may be needed under low input voltages. Please check the derating curve for more details.<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |   |             |               |              |               |                             |              |               |              |  |