

■ Features :

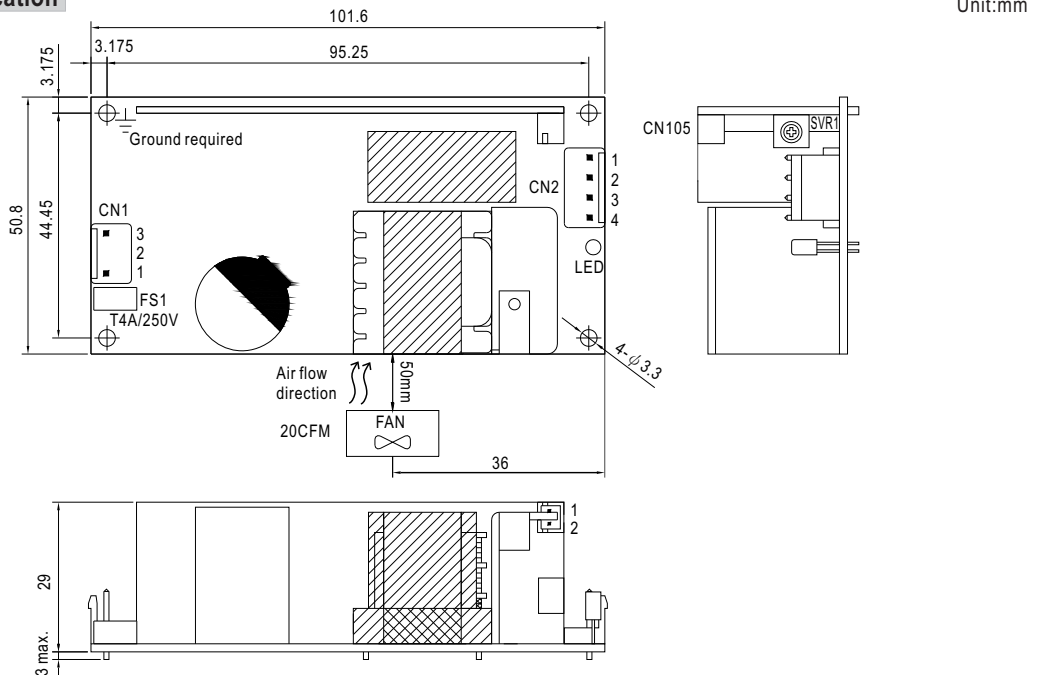
- 4"x2" Compact size
- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- 100W free air convection, 150W with 20CFM forced air
- LED indicator for power on
- No load power consumption<0.5W
- Built-in 12V/0.3A auxiliary output
- 3 years warranty



SPECIFICATION

| MODEL                 | EPP-150-12   | EPP-150-15   | EPP-150-24    | EPP-150-27    | EPP-150-48     |               |
|-----------------------|--|--|---------------|---------------|----------------|---------------|
| OUTPUT                | DC VOLTAGE   | 12V  | 15V           | 24V           | 27V            | 48V           |
|                       | RATED CURRENT (convection)                           | 8.4A   | 6.7A          | 4.2A          | 3.71A          | 2.1A          |
|                       | RATED CURRENT (20CFM FAN)                            | 12.5A  | 10A           | 6.25A         | 5.56A          | 3.125A        |
|                       | CURRENT RANGE (convection)                           | 0 ~ 8.4A   | 0 ~ 6.7A      | 0 ~ 4.2A      | 0 ~ 3.71A      | 0 ~ 2.1A      |
|                       | CURRENT RANGE (20CFM FAN)                            | 0 ~ 12.5A  | 0 ~ 10A       | 0 ~ 6.25A     | 0 ~ 5.56A      | 0 ~ 3.125A    |
|                       | RATED POWER (convection)                             | 100.8W   | 100.5W        | 100.8W        | 100.17W        | 100.8W        |
|                       | RATED POWER (20CFM FAN)                              | 150W   | 150W          | 150W          | 150.12W        | 150W          |
|                       | RIPPLE & NOISE (max.) Note.2                         | 130mVp-p   | 150mVp-p      | 240mVp-p      | 240mVp-p       | 300mVp-p      |
|                       | VOLTAGE ADJ. RANGE                                   | 11.76 ~ 12.6V  | 14.7 ~ 15.75V | 23.52 ~ 25.2V | 26.46 ~ 28.35V | 47.04 ~ 50.4V |
|                       | VOLTAGE TOLERANCE Note.3                             | ±2.0%  | ±2.0%         | ±1.0%         | ±1.0%          | ±1.0%         |
|                       | LINE REGULATION                                      | ±0.5%  | ±0.5%         | ±0.5%         | ±0.5%          | ±0.5%         |
|                       | LOAD REGULATION                                      | ±1.0%  | ±1.0%         | ±1.0%         | ±1.0%          | ±1.0%         |
| SETUP, RISE TIME      | 1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load |  |               |               |                |               |
| HOLD UP TIME (Typ.)   | 16ms/230VAC 16ms/115VAC at full load                 |  |               |               |                |               |
| INPUT                 | VOLTAGE RANGE Note.4                                 | 90 ~ 264VAC 127 ~ 370VDC   |               |               |                |               |
|                       | FREQUENCY RANGE                                      | 47 ~ 63Hz  |               |               |                |               |
|                       | POWER FACTOR (Typ.)                                  | PF>0.95/230VAC PF>0.98/115VAC at full load   |               |               |                |               |
|                       | EFFICIENCY (Typ.)                                    | 91.5%  | 92%           | 93%           | 92%            | 92%           |
|                       | AC CURRENT (Typ.)                                    | 1.8A/115VAC 1 A/230VAC   |               |               |                |               |
|                       | INRUSH CURRENT (Typ.)                                | COLD START 70A/230VAC  |               |               |                |               |
| LEAKAGE CURRENT       | <2mA/240VAC  |  |               |               |                |               |
| PROTECTION            | OVER LOAD  | 105 ~ 145% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed  |               |               |                |               |
|                       | OVER VOLTAGE   | 13.2 ~ 15.6V   | 16.83 ~ 19.5V | 27.7 ~ 31.5V  | 30.2 ~ 34.05V  | 51.3 ~ 62.7V  |
|                       | OVER TEMPERATURE                                     | Protection type : Shut down o/p voltage, re-power on to recover  |               |               |                |               |
| FUNCTION              | AUXILIARY POWER(AUX)                                 | 12V@0.3A for driving a fan, tolerance ± 10% at main output 100% load   |               |               |                |               |
| ENVIRONMENT           | WORKING TEMP.  | -30 ~ +70°C (Refer to "Derating Curve")  |               |               |                |               |
|                       | WORKING HUMIDITY                                     | 20 ~ 90% RH non-condensing   |               |               |                |               |
|                       | STORAGE TEMP., HUMIDITY                              | -40 ~ +85°C, 10 ~ 95% RH   |               |               |                |               |
|                       | TEMP. COEFFICIENT                                    | ±0.03%/°C (0 ~ 45°C)   |               |               |                |               |
|                       | OPERATING ALTITUDE Note.5                            | 2000 meters  |               |               |                |               |
| SAFETY & EMC (Note 6) | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |               |               |                |               |
|                       | SAFETY STANDARDS                                     | UL62368-1, TUV EN62368-1, EAC TP TC 004 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 / 500VDC / 25°C / 70% RH  |               |               |                |               |
|                       | EMC EMISSION   | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020   |               |               |                |               |
| OTHERS                | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11, heavy industry level, criteria A, EAC TP TC 020  |               |               |                |               |
|                       | MTBF   | 207.1Khrs min. MIL-HDBK-217F (25°C)  |               |               |                |               |
|                       | DIMENSION  | 101.6*50.8*29mm (L*W*H)  |               |               |                |               |
| NOTE                  | PACKING  | 0.2Kg; 72pcs/15.4Kg/0.82CUFT   |               |               |                |               |
|                       | 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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Derating may be needed under low input voltages. Please check the derating curve for more details.</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. 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>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |               |               |                |               |

**Mechanical Specification**



AC Input Connector (CN1) : JST B3P-VH or equivalent

| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | AC/L       | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | No Pin     |                       |                                |
| 3       | AC/N       |                       |                                |

⊕ : Grounding required

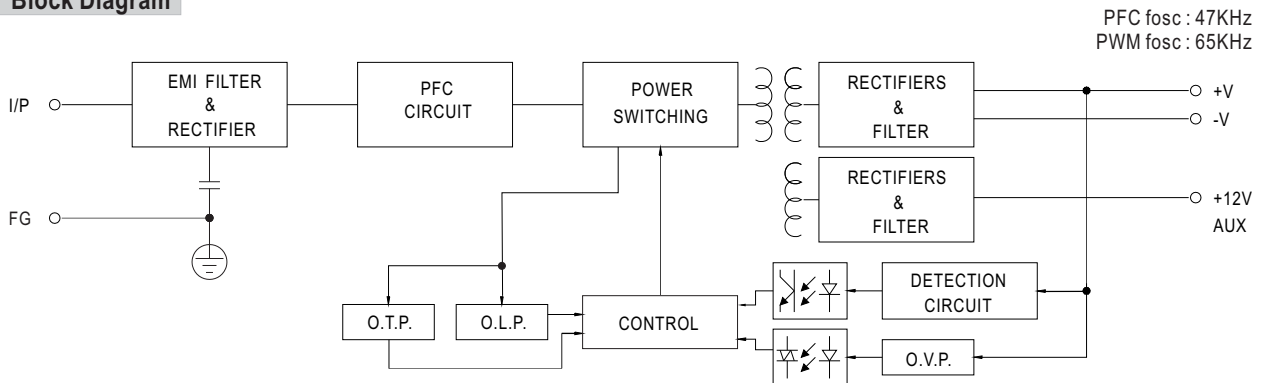
DC Output Connector (CN2) : JST B4P-VH or equivalent

| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1,2     | DC COM     | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4     | +V         |                       |                                |

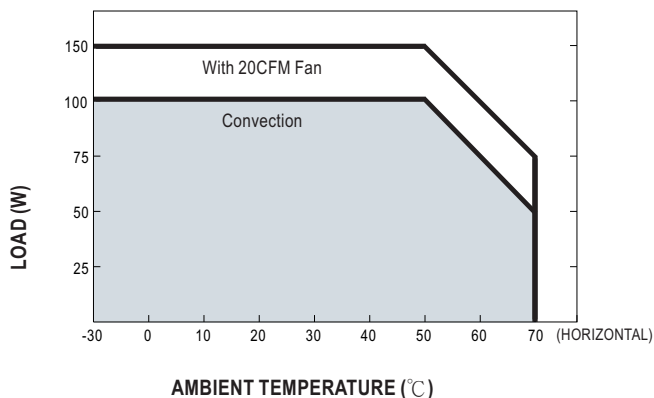
FAN Connector (CN105) : JST B2B-PH-K-S or equivalent

| Pin No. | Assignment | Mating Housing          | Terminal                         |
|---------|------------|-------------------------|----------------------------------|
| 1       | +12V       | JST PHR-2 or equivalent | JST SPH-002T-P0.5S or equivalent |
| 2       | DC COM     |                         |                                  |

**Block Diagram**



**Output Derating**



**Output Derating VS Input Voltage**

