



■ Features :

- Universal AC input / Full range
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 3"×2" compact size
- LED indicator for power on
- No load power consumption<0.3W
- 3 years warranty

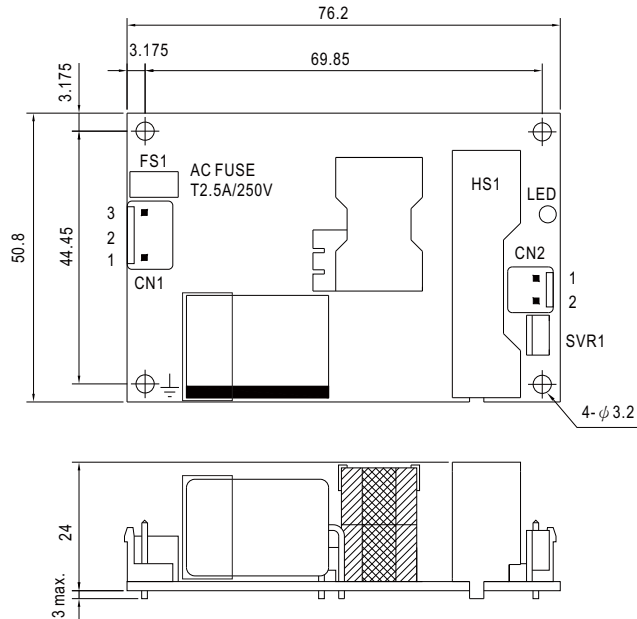


SPECIFICATION

| MODEL                 | EPS-25-3.3  | EPS-25-5  | EPS-25-7.5  | EPS-25-12    | EPS-25-15    | EPS-25-24      | EPS-25-27    | EPS-25-36      | EPS-25-48    |              |
|-----------------------|---|---|-------------|--------------|--------------|----------------|--------------|----------------|--------------|--------------|
| OUTPUT                | DC VOLTAGE  | 3.3V  | 5V          | 7.5V         | 12V          | 15V            | 24V          | 27V            | 36V          | 48V          |
|                       | RATED CURRENT   | 5A  | 5A          | 3.4A         | 2.1A         | 1.7A           | 1.05A        | 0.95A          | 0.7A         | 0.53A        |
|                       | CURRENT RANGE   | 0 ~ 5.5A  | 0 ~ 5.5A    | 0 ~ 3.74A    | 0 ~ 2.34A    | 0 ~ 1.87A      | 0 ~ 1.17A    | 0 ~ 1.05A      | 0 ~ 0.78A    | 0 ~ 0.59A    |
|                       | RATED POWER   | 16.5W   | 25W         | 25.5W        | 25.2W        | 25.5W          | 25.2W        | 25.65W         | 25.2W        | 25.44W       |
|                       | PEAK LOAD(10sec.) <small>Note.6</small>   | 18.15W  | 27.5W       | 28.05W       | 28.08W       | 28.05W         | 28.08W       | 28.35W         | 28.08W       | 28.32W       |
|                       | RIPPLE & NOISE (max.) <small>Note.2</small>   | 60mVp-p   | 60mVp-p     | 80mVp-p      | 100mVp-p     | 100mVp-p       | 180mVp-p     | 180mVp-p       | 200mVp-p     | 240mVp-p     |
|                       | VOLTAGE ADJ. RANGE  | 3.1 ~ 3.6V  | 4.75 ~ 5.5V | 7.13 ~ 8.25V | 10.8 ~ 13.5V | 13.5 ~ 16.5V   | 21.6 ~ 27V   | 24.3 ~ 29.7V   | 32.4 ~ 39.6V | 43.2 ~ 52.8V |
|                       | VOLTAGE TOLERANCE <small>Note.3</small>   | ±2.0%   | ±2.0%       | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        |
|                       | LINE REGULATION   | ±0.5%   | ±0.5%       | ±0.5%        | ±0.5%        | ±0.5%          | ±0.5%        | ±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  | 1000ms, 30ms/230VAC      1000ms, 30ms/115VAC at full load   |             |              |              |                |              |                |              |              |
| HOLD UP TIME (Typ.)   | 50ms/230VAC      16ms/115VAC at full load   |   |             |              |              |                |              |                |              |              |
| INPUT                 | VOLTAGE RANGE <small>Note.5</small>   | 85 ~ 264VAC      120 ~ 370VDC   |             |              |              |                |              |                |              |              |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |             |              |              |                |              |                |              |              |
|                       | EFFICIENCY (Typ.)   | 79%   | 81%         | 83%          | 86%          | 87%            | 88%          | 89%            | 89%          | 90%          |
|                       | AC CURRENT (Typ.)   | 0.6A/115VAC      0.4A/230VAC  |             |              |              |                |              |                |              |              |
|                       | INRUSH CURRENT (Typ.)   | COLD START 35A/230VAC   |             |              |              |                |              |                |              |              |
|                       | LEAKAGE CURRENT   | <1mA/240VAC   |             |              |              |                |              |                |              |              |
| PROTECTION            | OVER LOAD   | 115 ~ 170% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |             |              |              |                |              |                |              |              |
|                       | OVER VOLTAGE  | 3.7 ~ 4.6V  | 5.6 ~ 6.75V | 8.63 ~ 10.5V | 14 ~ 17V     | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 31.05 ~ 36.45V | 39.7 ~ 46.8V | 53.3 ~ 64.8V |
| 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 ~ 50°C)  |             |              |              |                |              |                |              |              |
|                       | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 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, EN55024, heavy industry level, criteria A                                       |             |              |              |                |              |                |              |              |
| OTHERS                | MTBF  | 655.3K hrs min.    MIL-HDBK-217F (25°C)   |             |              |              |                |              |                |              |              |
|                       | DIMENSION   | 76.2*50.8*24mm (L*W*H)  |             |              |              |                |              |                |              |              |
|                       | PACKING   | 0.081Kg; 120pcs/10.7Kg/0.97CUFT   |             |              |              |                |              |                |              |              |
| 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. 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>5. Derating may be needed under low input voltage. Please check the static characteristics for more details.</p> <p>6. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</p> <p>7. EPS-25-15/24/27/36/48 without HS1.</p> |   |             |              |              |                |              |                |              |              |

**Mechanical Specification**

Unit:mm



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

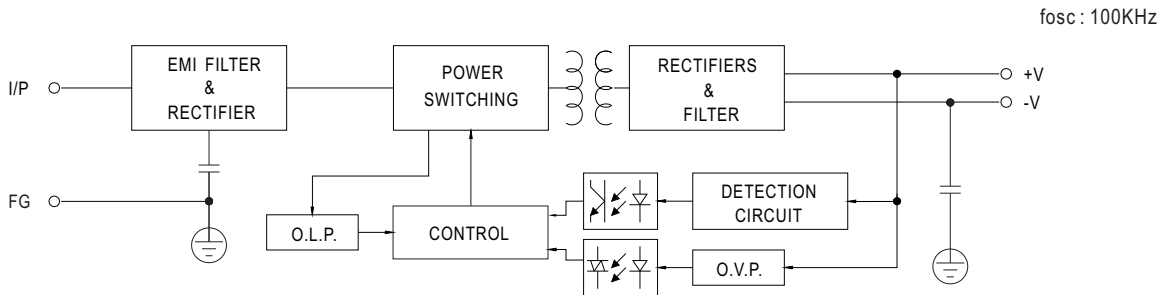
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | AC/N       | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | No Pin     |                       |      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

DC Output Connector (CN2) : JST B2P-VH or equivalent

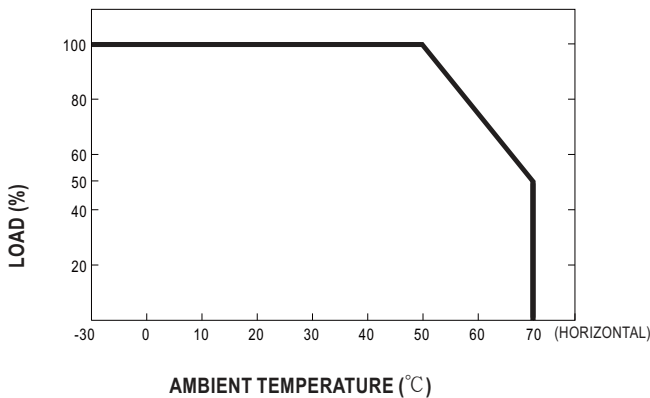
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | +V         |                       |      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

⚠ HS1(Note.7) must have safety isolation distance with system case.  
 ⊥ : Grounding required

**Block Diagram**



**Output Derating**



**Static Characteristics**

