

■ Features :

- Universal AC input / Full range
- Low leakage current <0.5mA
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- Fix switching frequency at 67KHz
- Low cost
- High reliability
- 2 years warranty

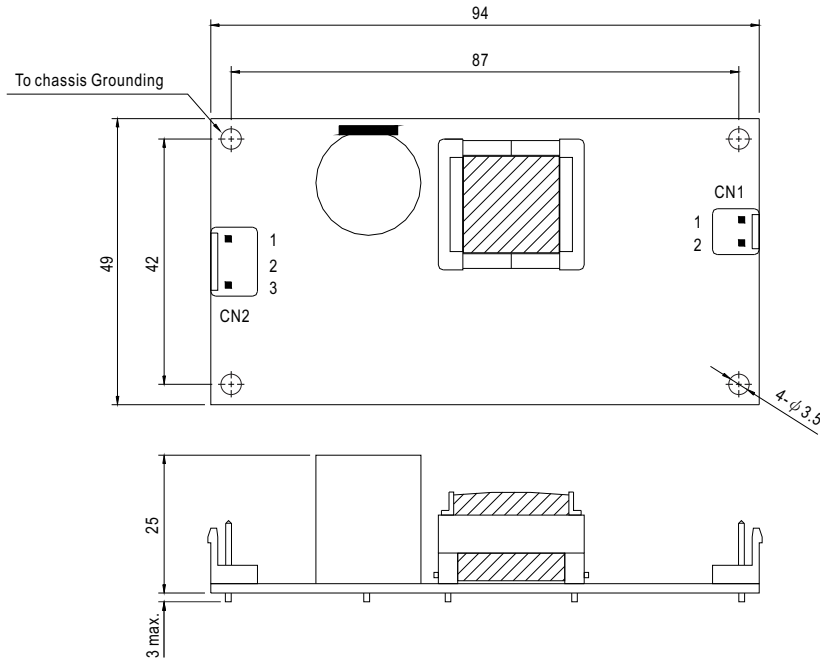


SPECIFICATION

| MODEL                 | PS-15-5                      | PS-15-12   | PS-15-15     | PS-15-24       | PS-15-48     |              |
|-----------------------|------------------------------|--|--------------|----------------|--------------|--------------|
| OUTPUT                | DC VOLTAGE                   | 5V   | 12V          | 15V            | 24V          | 48V          |
|                       | RATED CURRENT                | 2.8A   | 1.25A        | 1A             | 0.625A       | 0.313A       |
|                       | CURRENT RANGE                | 0 ~ 2.8A   | 0 ~ 1.25A    | 0 ~ 1A         | 0 ~ 0.625A   | 0 ~ 0.313A   |
|                       | RATED POWER                  | 14W  | 15W          | 15W            | 15W          | 15W          |
|                       | RIPPLE & NOISE (max.) Note.2 | 100mVp-p   | 120mVp-p     | 120mVp-p       | 150mVp-p     | 200mVp-p     |
|                       | VOLTAGE TOLERANCE Note.3     | ±2.0%  | ±2.0%        | ±2.0%          | ±2.0%        | ±2.0%        |
|                       | LINE REGULATION              | ±1.0%  | ±1.0%        | ±1.0%          | ±0.5%        | ±0.5%        |
|                       | LOAD REGULATION              | ±1.0%  | ±1.0%        | ±1.0%          | ±0.5%        | ±0.5%        |
|                       | SETUP, RISE TIME             | 5 ~ 24V:1200ms, 30ms      48V:1200ms, 75ms at full load  |              |                |              |              |
| HOLD UP TIME(Typ.)    | 100ms at full load           |  |              |                |              |              |
| INPUT                 | VOLTAGE RANGE                | 85 ~ 264VAC      120 ~ 370VDC  |              |                |              |              |
|                       | FREQUENCY RANGE              | 47 ~ 63Hz  |              |                |              |              |
|                       | EFFICIENCY(Typ.)             | 74%  | 77%          | 78%            | 79%          | 77%          |
|                       | AC CURRENT (Typ.)            | 0.4A/115VAC      0.2A/230VAC   |              |                |              |              |
|                       | INRUSH CURRENT (Typ.)        | COLD START 40A/230VAC  |              |                |              |              |
|                       | LEAKAGE CURRENT              | <0.5mA / 240VAC  |              |                |              |              |
| PROTECTION            | OVERLOAD                     | Above 105% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed  |              |                |              |              |
|                       | OVER VOLTAGE                 | 5.75 ~ 6.75V   | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 55.2 ~ 64.8V |
|                       | OVER TEMPERATURE             | Tj 140°C typically (U1) detect on main control IC<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed  |              |                |              |              |
| ENVIRONMENT           | WORKING TEMP.                | -10 ~ +60°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            | ±0.03%/°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             | IEC60950-1 CB approved by TUV  |              |                |              |              |
|                       | 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   |              |                |              |              |
|                       | EMI CONDUCTION & RADIATION   | Compliance to EN55032 (CISPR32) Class B  |              |                |              |              |
|                       | HARMONIC CURRENT             | Compliance to EN61000-3-2, -3  |              |                |              |              |
| OTHERS                | EMT IMMUNITY                 | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A   |              |                |              |              |
|                       | MTBF                         | 681.7K hrs min.    MIL-HDBK-217F (25°C)  |              |                |              |              |
|                       | DIMENSION                    | 94*49*25mm (L*W*H)   |              |                |              |              |
| NOTE                  | PACKING                      | 0.083Kg; 120pcs/10.96Kg/0.9CUFT/0.9CUFT  |              |                |              |              |
|                       |                              | <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>※ 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

Unit:mm



AC Input Connector (CN2) : JST B3P-VH or equivalent

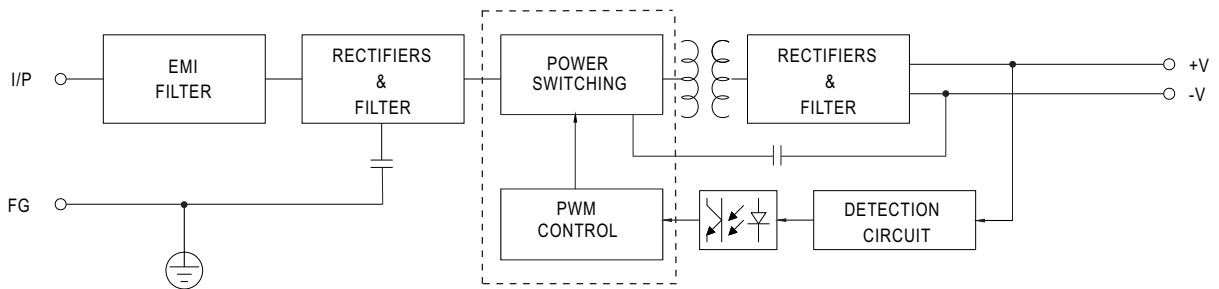
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | AC/N       | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | No Pin     |                       |      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

DC Output Connector (CN1) : JST B2P-VH or equivalent

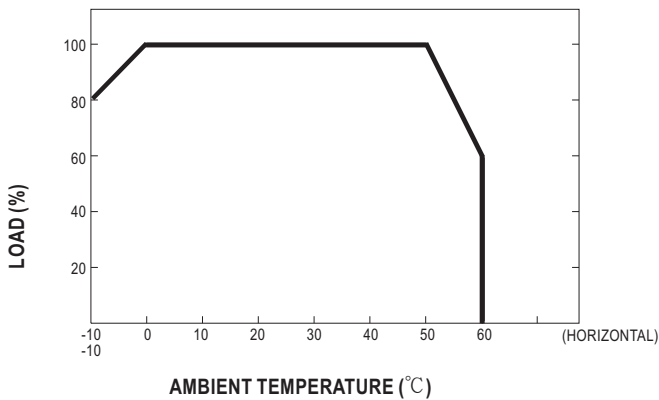
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | +V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | -V         |                       |      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

■ Block Diagram

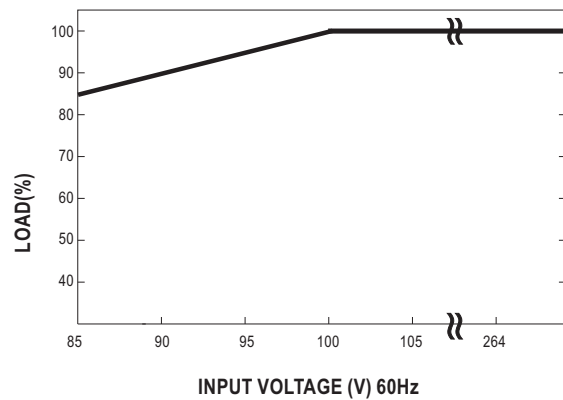
fosc : 67KHz



■ Derating Curve



■ Static Characteristics



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