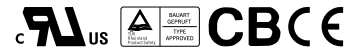




- Features :
- Universal AC input / Full range
  - Protections:Short circuit/Over load/Over voltage
  - Cooling by free air convection
  - PWM control and regulated
  - Small and compact size
  - Built-in remote ON-OFF control
  - LED indicator for power on
  - 100% full load burn-in test
  - 2 years warranty

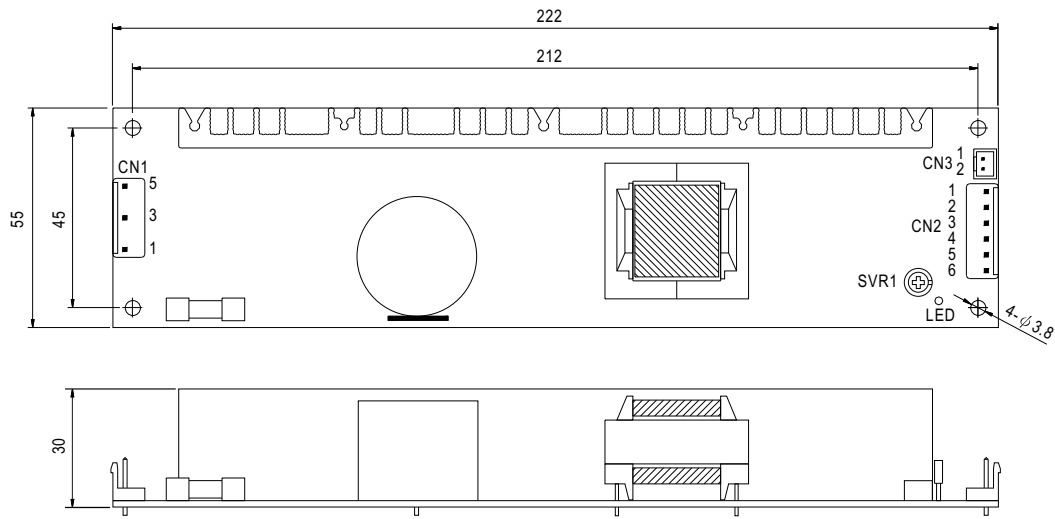


**SPECIFICATION**

| MODEL                                | LPS-75-3.3  | LPS-75-5  | LPS-75-12    | LPS-75-15    | LPS-75-24      | LPS-75-48    |              |
|--------------------------------------|---|---|--------------|--------------|----------------|--------------|--------------|
| OUTPUT                               | DC VOLTAGE  | 3.3V  | 5V           | 12V          | 15V            | 24V          | 48V          |
|                                      | RATED CURRENT   | 15A   | 15A          | 6.2A         | 5A             | 3.2A         | 1.56A        |
|                                      | CURRENT RANGE   | 0 ~ 16.5A   | 0 ~ 16.5A    | 0 ~ 6.8A     | 0 ~ 5.5A       | 0 ~ 3.5A     | 0 ~ 1.7A     |
|                                      | RATED POWER   | 49.5W   | 75W          | 74.4W        | 75W            | 76.8W        | 75W          |
|                                      | PEAK LOAD(10sec.) <small>Note.4</small>   | 54.45W  | 82.5W        | 81.6W        | 82.5W          | 84W          | 81.6W        |
|                                      | RIPPLE & NOISE (max.) <small>Note.2</small>   | 80mVp-p   | 80mVp-p      | 100mVp-p     | 100mVp-p       | 120mVp-p     | 120mVp-p     |
|                                      | VOLTAGE ADJ. RANGE  | 3 ~ 3.5V  | 4.75 ~ 5.5V  | 11 ~ 13.5V   | 13.5 ~ 16.5V   | 22 ~ 27V     | 45 ~ 54V     |
|                                      | VOLTAGE TOLERANCE <small>Note.3</small>   | ±3.0%   | ±3.0%        | ±2.0%        | ±2.0%          | ±2.0%        | ±2.0%        |
|                                      | LINE REGULATION   | ±1.0%   | ±1.0%        | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        |
|                                      | LOAD REGULATION   | ±3.0%   | ±3.0%        | ±2.0%        | ±2.0%          | ±1.0%        | ±1.0%        |
|                                      | SETUP, RISE TIME  | 100ms, 35ms/230VAC    100ms, 35ms/115VAC at full load   |              |              |                |              |              |
| HOLD TIME (Typ.)                     | 60ms/230VAC    12ms/115VAC at full load   |   |              |              |                |              |              |
| INPUT                                | VOLTAGE RANGE   | 90 ~ 264VAC    127 ~ 370VDC   |              |              |                |              |              |
|                                      | FREQUENCY RANGE   | 47 ~ 63Hz   |              |              |                |              |              |
|                                      | EFFICIENCY(Typ.)  | 69%   | 77%          | 80%          | 81%            | 83%          | 83%          |
|                                      | AC CURRENT (Typ.)   | 1.9A/115VAC    1.1A/230VAC  |              |              |                |              |              |
|                                      | INRUSH CURRENT (Typ.)   | COLD START 18A/115VAC    36A/230VAC   |              |              |                |              |              |
|                                      | LEAKAGE CURRENT   | <1mA/ 240VAC  |              |              |                |              |              |
| PROTECTION                           | OVER LOAD   | 115 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |              |                |              |              |
|                                      | OVER VOLTAGE  | 3.8 ~ 4.45V   | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 57.6 ~ 67.2V |
|                                      |   | Protection type : Hiccup mode, recovers automatically after fault condition is removed                                  |              |              |                |              |              |
| FUNCTION                             | REMOTE ON/OFF   | RC+/RC- : 0 ~ 0.8V power on ; 4 ~ 10V power off   |              |              |                |              |              |
| ENVIRONMENT                          | WORKING TEMP.   | -20 ~ +70°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   | ±0.04%/°C (0 ~ 50°C)  |              |              |                |              |              |
|                                      | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes  |              |              |                |              |              |
| SAFETY & EMC <small>(Note 5)</small> | SAFETY STANDARDS  | UL60950-1, TUV EN60950-1 Approved   |              |              |                |              |              |
|                                      | WITHSTAND VOLTAGE   | I/P-O/P:3KVAC    I/P-FG:1.5KVAC    O/P-FG:0.5KVAC   |              |              |                |              |              |
|                                      | ISOLATION RESISTANCE  | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC  |              |              |                |              |              |
|                                      | EMI CONDUCTION & RADIATION  | Compliance to EN55011, EN55022 (CISPR22) Class B  |              |              |                |              |              |
|                                      | HARMONIC CURRENT  | Compliance to EN61000-3-2,-3  |              |              |                |              |              |
|                                      | EMS IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A     |              |              |                |              |              |
| OTHERS                               | MTBF  | 355Khrs min.    MIL-HDBK-217F (25°C)  |              |              |                |              |              |
|                                      | DIMENSION   | 222*55*30mm (L*W*H)   |              |              |                |              |              |
|                                      | PACKING   | 0.3Kg; 48pcs/15.6Kg/1.12CUFT  |              |              |                |              |              |
| NOTE                                 | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>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.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</li> <li>5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ol> |   |              |              |                |              |              |

■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B5P-VH or equivalent

| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | AC/L       | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2,4     | No Pin     |                       |                                |
| 3       | AC/N       |                       |                                |
| 5       | FG $\perp$ |                       |                                |

DC Output Connector (CN2) : JST B6P-VH or equivalent

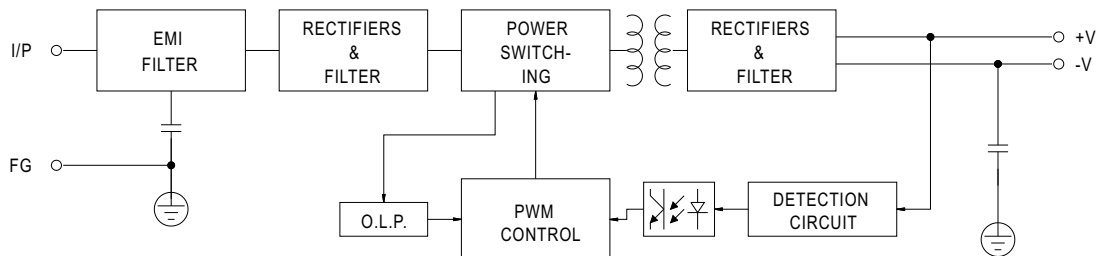
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1,2,3   | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 4,5,6   | +V         |                       |                                |

Remote ON/OFF Connector(CN3):JST B2B-XH or equivalent

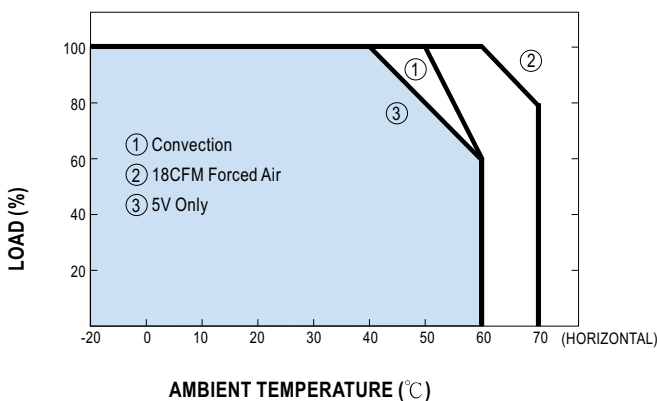
| Pin No. | Assignment | Mating Housing        | Terminal                        |
|---------|------------|-----------------------|---------------------------------|
| 1       | RC+        | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2       | RC-        |                       |                                 |

■ Block Diagram

fosc : 60KHz



■ Derating Curve



■ Static Characteristics (15V)

