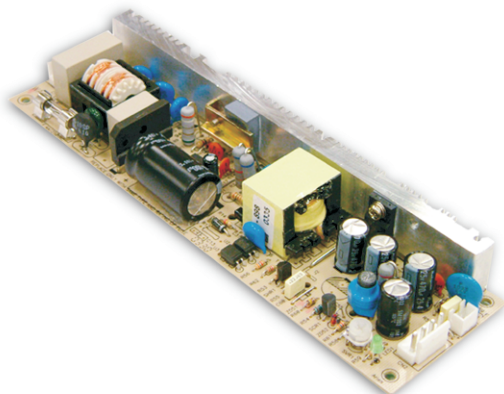




#### ■ Features :

- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- Small and compact size
- Built-in remote ON-OFF control
- LED indicator for power on
- 100% full load burn-in test
- Low profile: 23mm thickness
- 2 years warranty

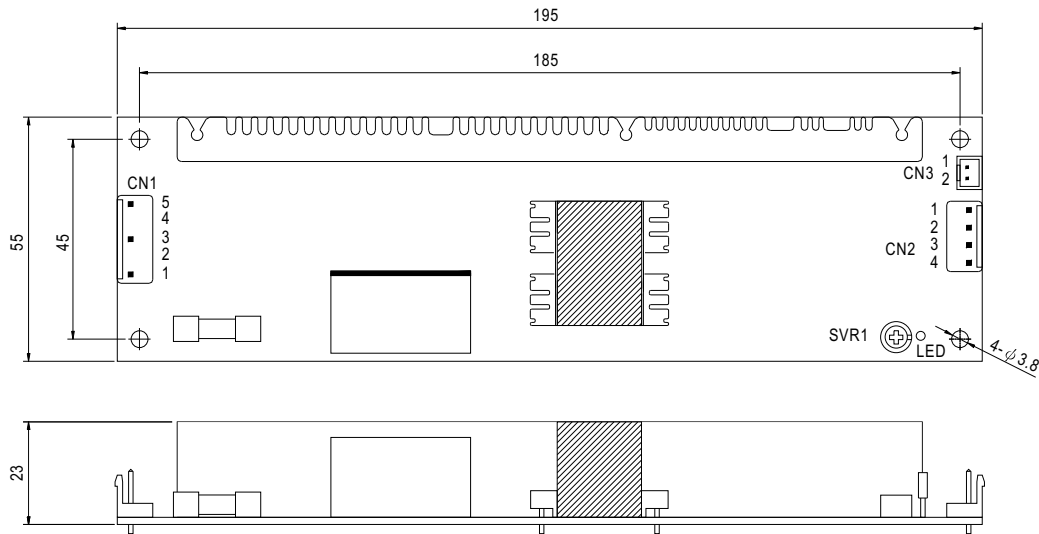


#### SPECIFICATION

| MODEL                    |                                             | LPS-50-3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LPS-50-5     | LPS-50-12    | LPS-50-15      | LPS-50-24    | LPS-50-48    |
|--------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|----------------|--------------|--------------|
| OUTPUT                   | DC VOLTAGE                                  | 3.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5V           | 12V          | 15V            | 24V          | 48V          |
|                          | RATED CURRENT                               | 10A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10A          | 4.2A         | 3.4A           | 2.1A         | 1.1A         |
|                          | CURRENT RANGE                               | 0 ~ 12A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 ~ 12A      | 0 ~ 5A       | 0 ~ 4.1A       | 0 ~ 2.5A     | 0 ~ 1.3A     |
|                          | RATED POWER                                 | 33W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50W          | 50.4W        | 51W            | 50.4W        | 52.8W        |
|                          | PEAK LOAD(10sec.) <small>Note.4</small>     | 39.6W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60W          | 60W          | 61.5W          | 60W          | 62.4W        |
|                          | RIPPLE & NOISE (max.) <small>Note.2</small> | 50mVp-p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50mVp-p      | 80mVp-p      | 80mVp-p        | 80mVp-p      | 100mVp-p     |
|                          | VOLTAGE ADJ. RANGE                          | 3 ~ 3.6V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.5 ~ 5.5V   | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 27.2V | 43.2 ~ 52.8V |
|                          | VOLTAGE TOLERANCE <small>Note.3</small>     | ±3.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ±3.0%        | ±2.0%        | ±2.0%          | ±1.0%        | ±1.0%        |
|                          | 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, 40ms/230VAC 100ms, 40ms/115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |                |              |              |
|                          | HOLD TIME (Typ.)                            | 70ms/230VAC 12ms/115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |                |              |              |
| INPUT                    | VOLTAGE RANGE                               | 90 ~ 264VAC 127 ~ 370VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |                |              |              |
|                          | FREQUENCY RANGE                             | 47 ~ 63Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |                |              |              |
|                          | EFFICIENCY(Typ.)                            | 75%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 81%          | 82%          | 84%            | 85%          | 86%          |
|                          | AC CURRENT (Typ.)                           | 115VAC 0.9A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.2A         |              |                |              |              |
|                          |                                             | 230VAC 0.6A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.8A         |              |                |              |              |
|                          | INRUSH CURRENT (Typ.)                       | COLD START 18A/115VAC 35A/230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |                |              |              |
| PROTECTION               | OVER LOAD                                   | 122 ~ 160% 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<br>(Note 5) | 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 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                                        | 341.7Khrs min. MIL-HDBK-217F (25°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |                |              |              |
|                          | DIMENSION                                   | 195*55*23mm (L*W*H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |                |              |              |
|                          | PACKING                                     | 0.24Kg; 48pcs/12.5Kg/0.84CUFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |                |              |              |
| 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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.<br>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. |              |              |                |              |              |

## 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 B4P-VH or equivalent

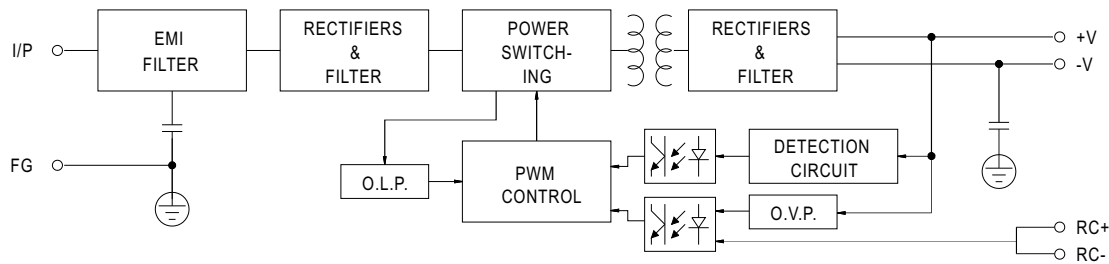
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1,2     | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4     | +V         |                       |      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

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

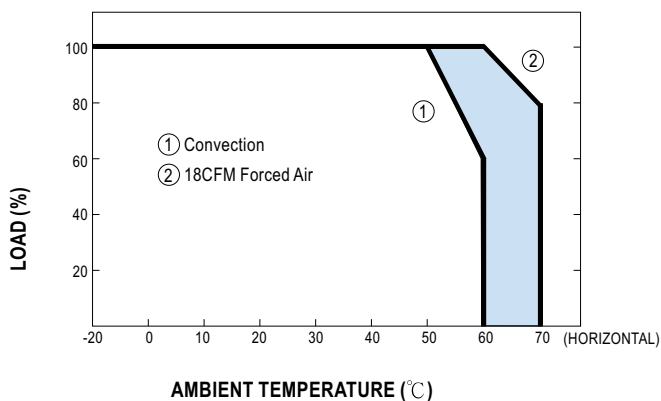
| Pin No. | Assignment | Mating Housing        | Terminal                        |
|---------|------------|-----------------------|---------------------------------|
| 1       | RC+        | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2       | RC-        |                       |   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

## Block Diagram

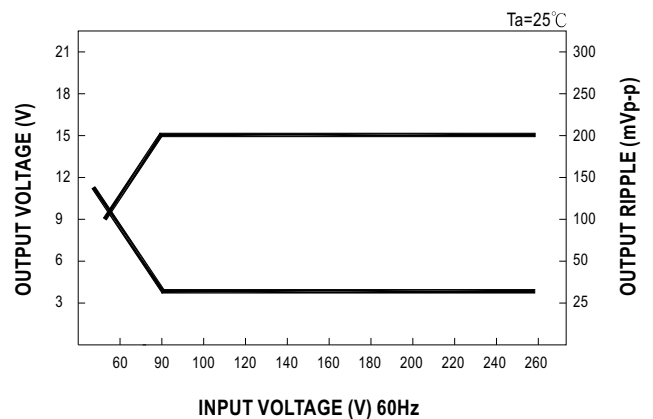
fosc : 60KHz



## Derating Curve



## Static Characteristics (15V)



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