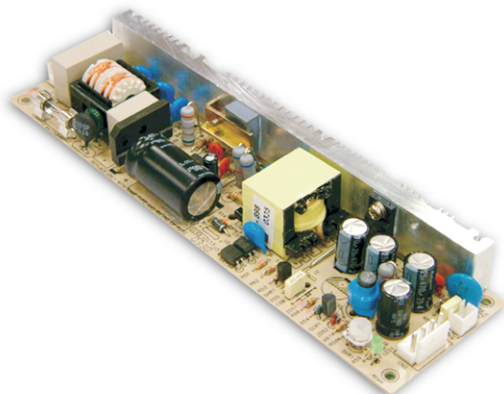




#### ■ Features :

- 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

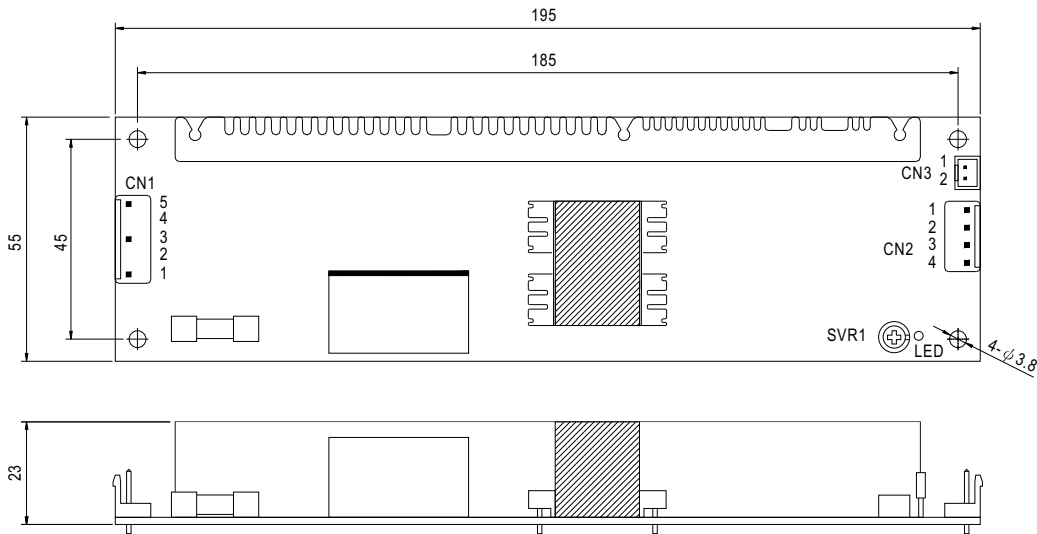


#### SPECIFICATION

| 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.)<br><div>Note.4</div>     | 39.6W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 60W                                                                                                                     | 60W          | 61.5W        | 60W            | 62.4W        |              |
|                          | RIPPLE & NOISE (max.)<br><div>Note.2</div> | 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<br><div>Note.3</div>     | ±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                                 | 115VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.9A                                                                                                                    | 1.2A         |              |                |              |              |
|                          | (Typ.)                                     | 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.6A                                                                                                                    | 0.8A         |              |                |              |              |
|                          | INRUSH CURRENT (Typ.)                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COLD START 18A/115VAC      35A/230VAC                                                                                   |              |              |                |              |              |
| LEAKAGE CURRENT          |                                            | <1mA / 240VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                         |              |              |                |              |              |
| 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 |
| FUNCTION                 | REMOTE ON/OFF                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RC+/RC- : 0 ~ 0.8V power on ; 4 ~ 10V power off                                                                         |              |              |                |              |              |
| ENVIRONMENT              | WORKING TEMP.                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -20 ~ +70℃ (Refer to output load derating curve)                                                                        |              |              |                |              |              |
|                          | WORKING HUMIDITY                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20 ~ 90% RH non-condensing                                                                                              |              |              |                |              |              |
|                          | STORAGE TEMP., HUMIDITY                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -20 ~ +85℃, 10 ~ 95% RH                                                                                                 |              |              |                |              |              |
|                          | TEMP. COEFFICIENT                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.04%/℃ (0 ~ 50℃ )                                                                                                     |              |              |                |              |              |
|                          | 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℃ )                                                                                  |              |              |                |              |              |
|                          | 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℃ 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

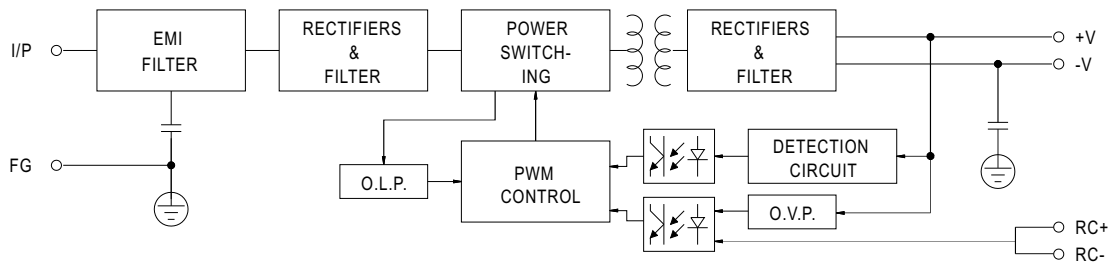
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1,2     | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4     | +V         |                       |      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

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

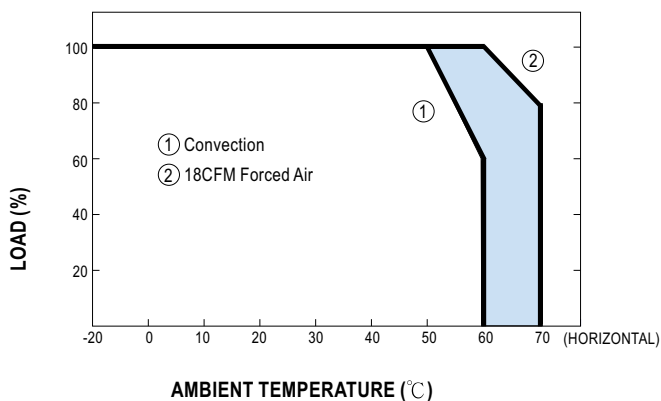
| Pin No. | Assignment | Mating Housing        | Terminal                        |
|---------|------------|-----------------------|---------------------------------|
| 1       | RC+        | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2       | RC-        |                       |   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

### Block Diagram

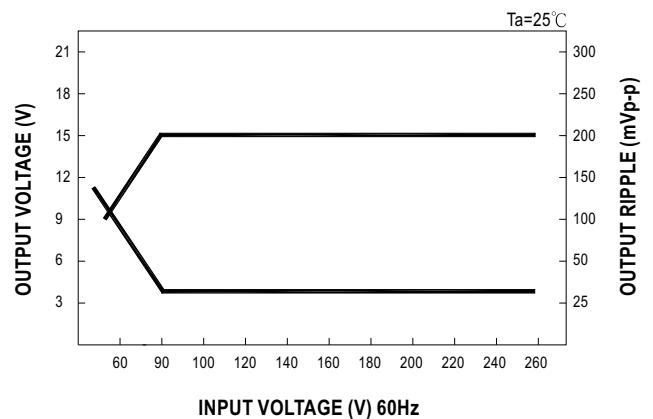
fosc : 60KHz



### Derating Curve



### Static Characteristics (15V)



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