

■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / 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

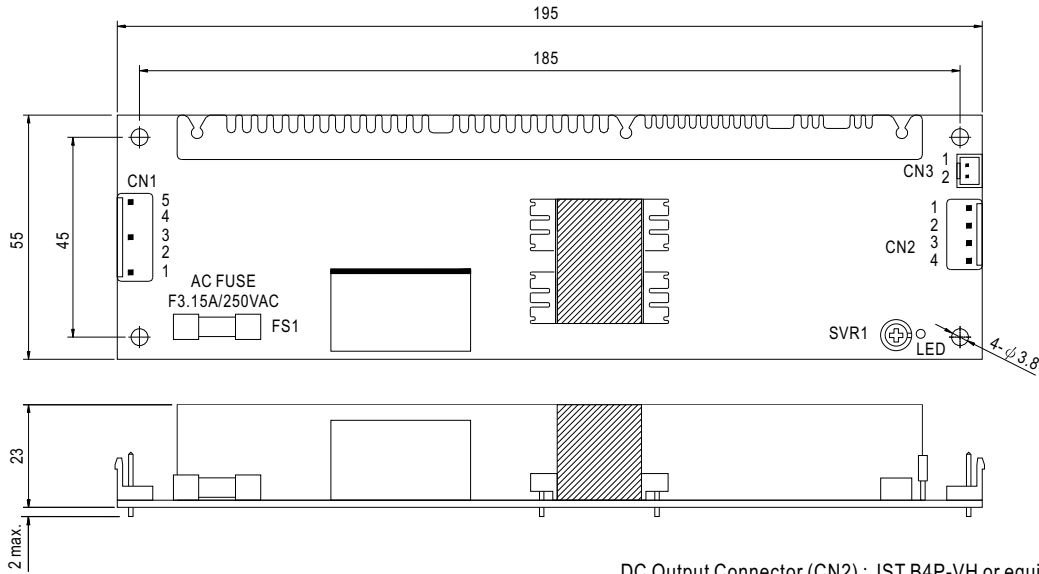


SPECIFICATION

| 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 UP 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 | | | | | | | |
| LEAKAGE CURRENT | <1mA / 240VAC | | | | | | | | | | | | |
| PROTECTION | OVERLOAD | 122 ~ 160% rated output power 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°C (Refer to "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 / 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, 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 | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</p> <p>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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> | | | | | | | | | | | | |

■ 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

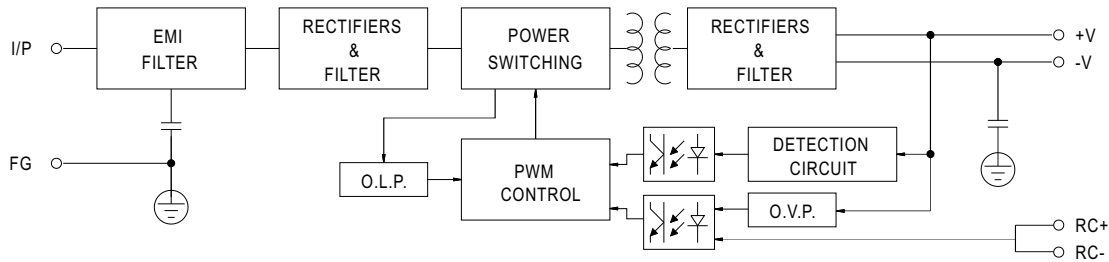
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | -V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4 | +V | | |

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

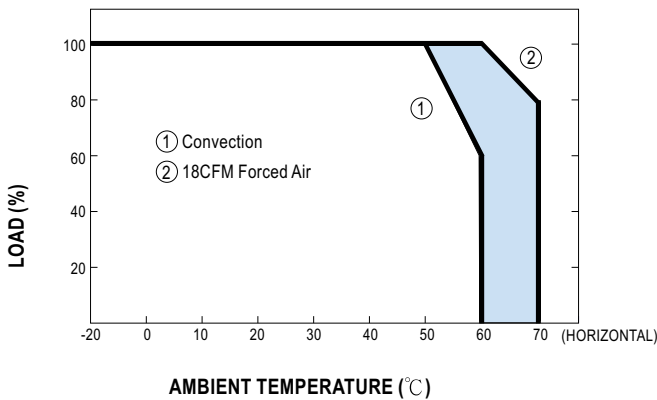
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|---------------------------------|
| 1 | RC+ | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2 | RC- | | |

■ Block Diagram

fosc : 60KHz



■ Derating Curve



■ Static Characteristics (15V)

