



■ 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

User's Manual



■ GTIN CODE

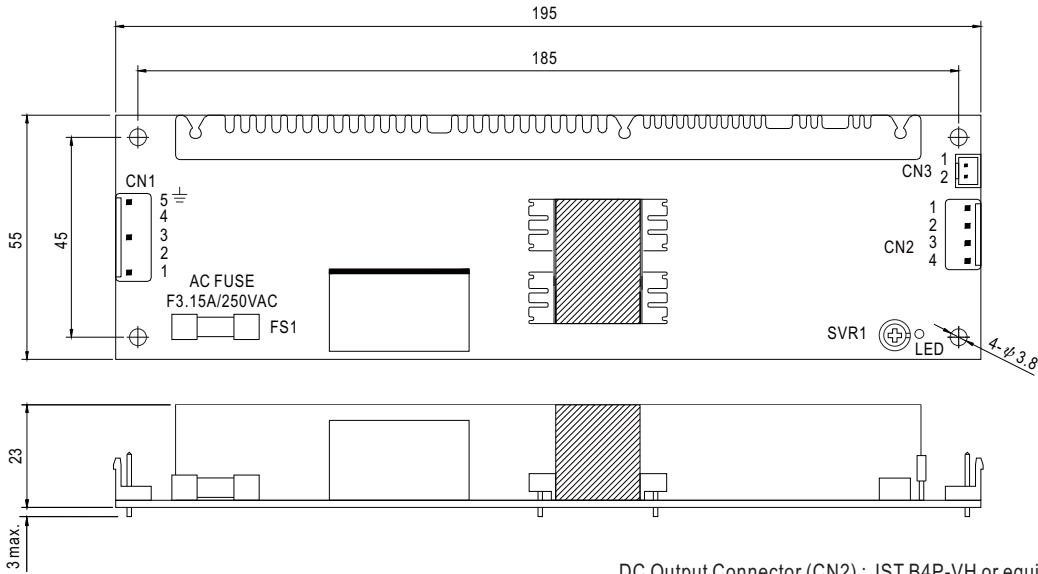
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

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.) Note.4 | 39.6W | 60W | 60W | 61.5W | 60W | 62.4W | |
| | RIPPLE & NOISE (max.) Note.2 | 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 Note.3 | ± 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 | 500ms, 40ms/230VAC 500ms, 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 | | | | | | |
| PROTECTION | LEAKAGE CURRENT | <1mA / 240VAC | | | | | | |
| | 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 | | | | | | |
| | WORKING TEMP. | -20 ~ +70°C (Refer to "Derating Curve") | | | | | | |
| ENVIRONMENT | 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 (Note 5) | SAFETY STANDARDS | UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved | | | | | | |
| | 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 | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 | | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 | | | | | | |
| | MTBF | 3138.2K hrs min. Telcordia SR-332 (Bellcore) ; 491.4K hrs min. MIL-HDBK-217F (25°C) | | | | | | |
| NOTE | DIMENSION | 195*55*23mm (L*W*H) | | | | | | |
| | PACKING | 0.24Kg; 48pcs/12.5Kg/0.87CUFT | | | | | | |
| <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. 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 http://www.meanwell.com)</p> <p>6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</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 | | |

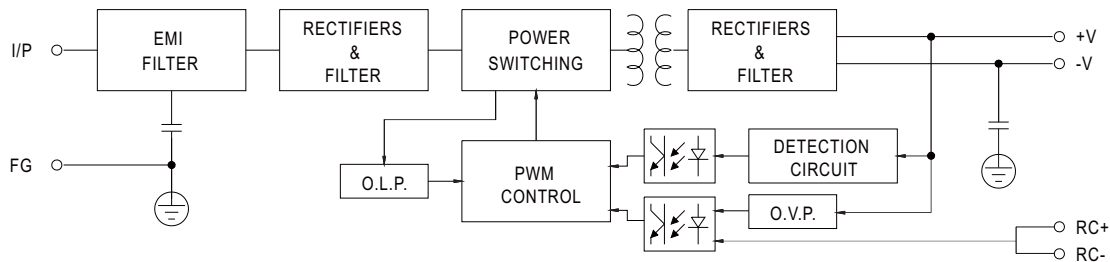
Remote ON/OFF Connector(CN3):JST B2B-XH or equivalent

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

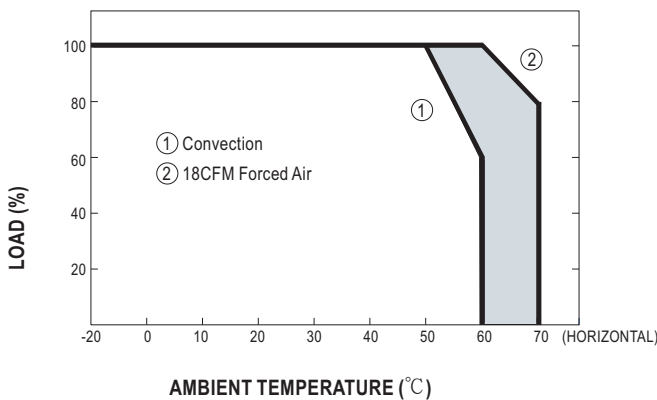
\perp : Grounding Required
CN1:Pin 5 is safety ground

■ Block Diagram

fosc : 60KHz



■ Derating Curve



■ Static Characteristics (15V)

