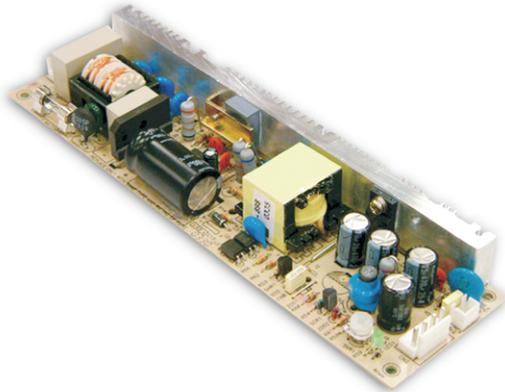




50W Single Output Switching Power Supply

LPS-50 series



■ 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

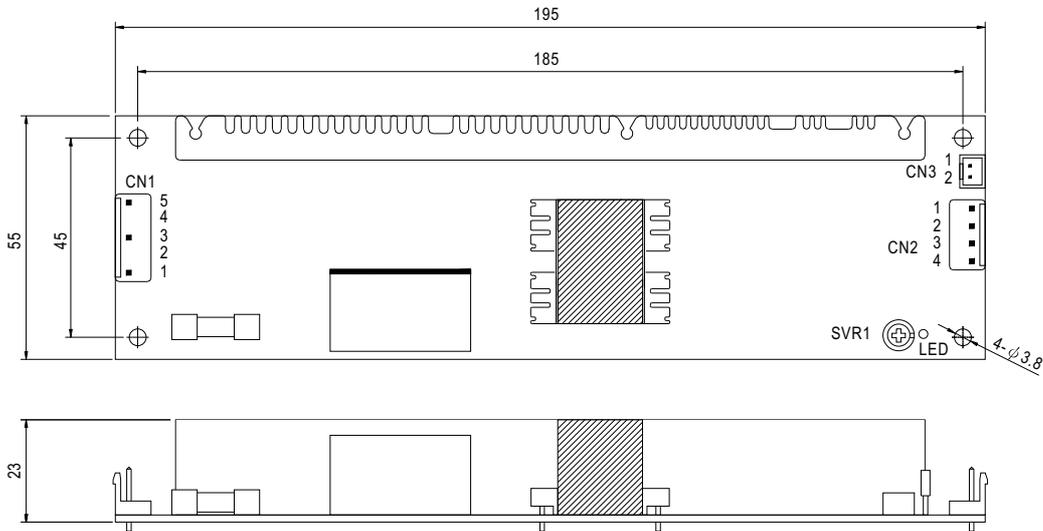


SPECIFICATION

| 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 | | | | | | |
| LEAKAGE CURRENT | <1mA / 240VAC | | | | | | | |
| PROTECTION | OVER LOAD | 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 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 (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 | <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.</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

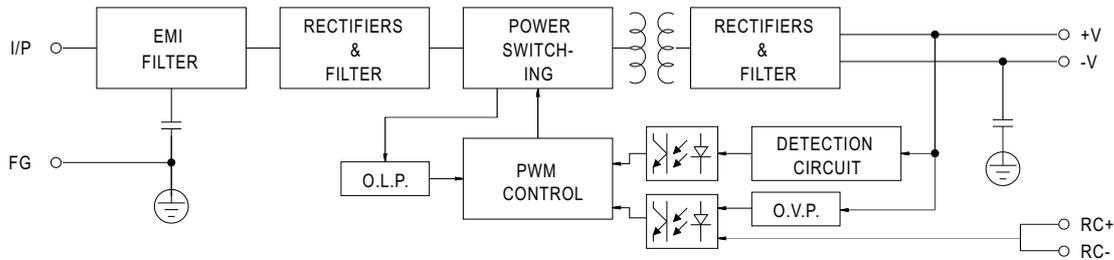
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | -V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4 | +V | | |

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

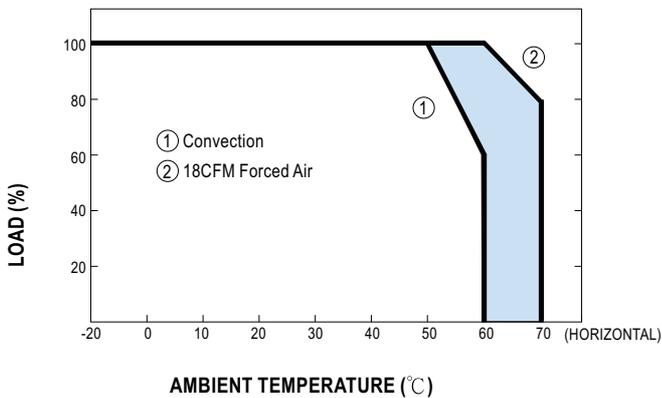
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|---------------------------------|
| 1 | RC+ | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2 | RC- | | |

■ Block Diagram

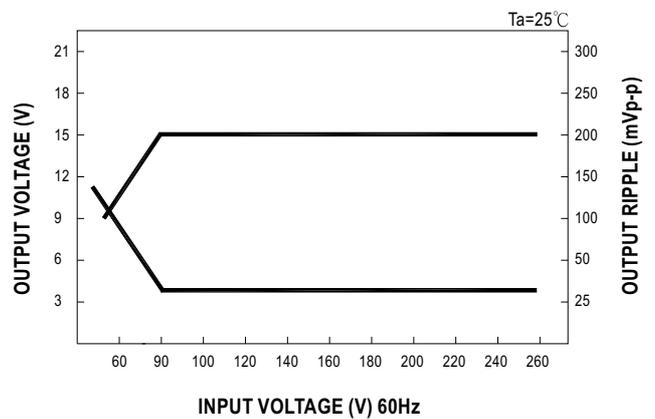
fosc : 60KHz



■ Derating Curve



■ Static Characteristics (15V)





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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