



■ Features :

- Constant voltage mode power supply
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

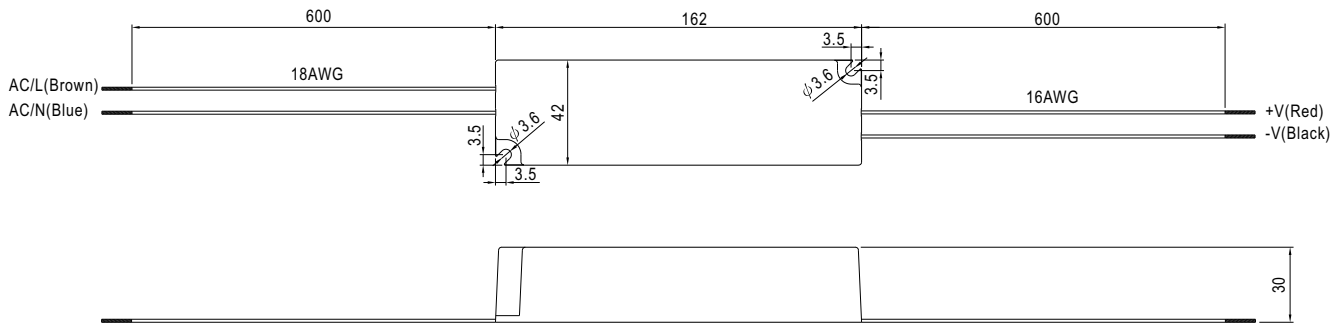


SPECIFICATION

| MODEL | LPV-60-5 | LPV-60-12 | LPV-60-15 | LPV-60-24 | LPV-60-36 | LPV-60-48 | |
|---------------------|---|---|--------------|----------------|--------------|--------------|--------------|
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V | 36V | 48V |
| | RATED CURRENT | 8A | 5A | 4A | 2.5A | 1.67A | 1.25A |
| | CURRENT RANGE | 0 ~ 8A | 0 ~ 5A | 0 ~ 4A | 0 ~ 2.5A | 0 ~ 1.67A | 0 ~ 1.25A |
| | RATED POWER | 40W | 60W | 60W | 60W | 60W | 60W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | 150mVp-p | 150mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±8.0% | ±5.0% | | | | |
| | LINE REGULATION | ±1.0% | | | | | |
| | LOAD REGULATION | ±6.0% | ±2.0% | | | | |
| | SETUP, RISE TIME Note.6 | 500ms, 20ms / 230VAC 500ms, 20ms / 115VAC at full load | | | | | |
| HOLD UP TIME (Typ.) | 50ms/230VAC | 16ms/115VAC at full load | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 76% | 83% | 83% | 86% | 86% | 86% |
| | AC CURRENT | 1.2A/115VAC 1A/230VAC | | | | | |
| | INRUSH CURRENT(max.) | COLD STAR 30A/115VAC | | 60A/230VAC | | | |
| | LEAKAGE CURRENT | 0.25mA / 240VAC | | | | | |
| PROTECTION | OVER CURRENT Note.4 | 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 41.4 ~ 48.6V | 55.2 ~ 64.8V |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70°C (Refer to output load derating curve) | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | Design refer to UL1310 Class 2, TUV EN60950-1, CAN/CSA C22.2 No. 223-M91, EN61347-2-13, IP66 | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms/500VDC 25°C 70%RH | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | | | |
| OTHERS | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A | | | | | |
| | MTBF | 732Khrs min. MIL-HDBK-217F (25°C) | | | | | |
| | DIMENSION | 162*42*30mm (L*W*H) | | | | | |
| | PACKING | 0.4Kg; 32pcs/13.8Kg/0.56CUFT | | | | | |
| 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. Derating may be needed under low input voltage. Please check the derating curve for more details.</p> <p>5. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> | | | | | | |

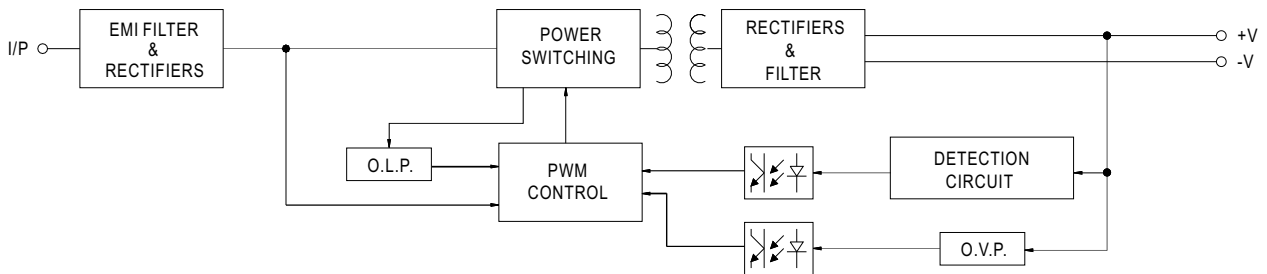
Mechanical Specification

Case No. 976A Unit:mm

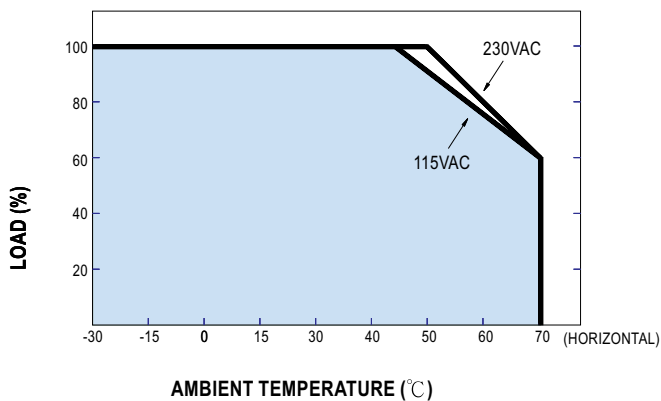


Block Diagram

fosc : 65KHz



Derating Curve



Static Characteristics

