# 60W Single Output Switching Power Supply — LPC-60 series



■ Features :

- Constant current design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.6)
- Fully isolated plastic case
- Class Ⅱ power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.9)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

User's Manual Click Me

## ■ GTIN CODE

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

## SPECIFICATION

LPS IP67 ( except for 1750mA ) ( for 1750mA only) IS 15885(Part 2/Sec13) R-41027766 ( except for 1750mA )

| MODEL | | LPC-60-1050 | LPC-60-1400 | LPC-60-1750 |
|---|---|---|---|---|
| OUTPUT | RATED CURRENT | 1050mA | 1400mA | 1750mA |
| | CONSTANT CURRENT REGION | 9 ~ 48V | 9 ~ 42V | 9 ~ 34V |
| | RATED POWER | 50.4W | 58.8W | 59.5W |
| | CURRENT RIPPLE Note.2 | ±5% | | |
| | VOLTAGE TOLERANCE | ±5.0% | | |
| | CURRENT ACCURACY | ±5.0% | | |
| | SETUP, RISE TIME Note.5 | 500ms, 120ms / 230VAC 500ms, 120ms / 115VAC at full load | | |
| | HOLD UP TIME (Typ.) | 50ms/230VAC 16ms/115VAC at full load | | |
| INPUT | VOLTAGE RANGE Note.3 | 90 ~ 264VAC 127 ~ 370VDC | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | EFFICIENCY (Typ.) | 87% | 85% | 87% |
| | AC CURRENT (Typ.) | 1.2A/115VAC 0.7A/230VAC | | |
| | INRUSH CURRENT(Typ.) | COLD START 60A(twidth=540μs measured at 50% Ipeak) at 230VAC | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | |
| | LEAKAGE CURRENT | 0.25mA / 240VAC | | |
| PROTECTION | OVER VOLTAGE | 50.4 ~ 60V | 44.1 ~ 56.7V | 39.1 ~ 45.9V |
| | | Protection type : Shut off o/p voltage, clamping by TVS diode | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70℃ (Refer to "Derating Curve") | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80℃, 10 ~ 95% RH | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 50℃) | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | |
| SAFETY & EMC | SAFETY STANDARDS | UL1310, CAN/CSA C22.2 No. 223-M91(for LPC-60-1750 only), BIS IS15885(except for LPC-60-1750), EAC TP TC 004, IP67, IEC62368-1 , BS EN/EN62368-1 approved | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC | | |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms / 500VDC / 25℃/ 70% RH | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A, BS EN/EN61000-3-3, EAC TP TC 020 | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020 | | |
| OTHERS | MTBF | 5269.3K hrs min. Telcordia SR-332 (Bellcore) ; 567.2K hrs min. MIL-HDBK-217F (25℃) | | |
| | DIMENSION | 162.5*42.5*32mm (L*W*H) | | |
| | PACKING | 0.4Kg; 32pcs/13.8Kg/0.63CUFT | | |

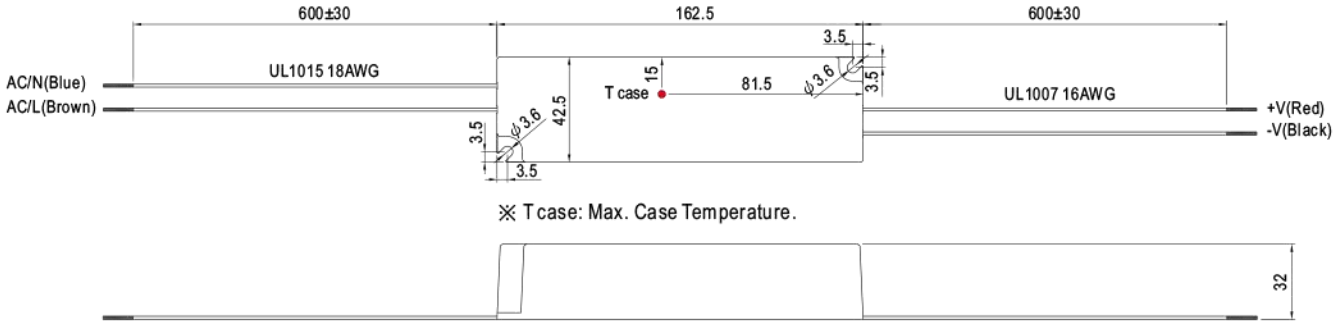
NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Current ripple is measured 60%~100% of maximum voltage under rated power delivery.
3. Derating may be needed under low input voltage. Please check the static characteristics for more details.
4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
5. 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.
6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
7. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
8. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
9. This product is not intended for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series are recommended.)

※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

## ■ Mechanical Specification

Case No. 976A Unit:mm Tolerance:±1

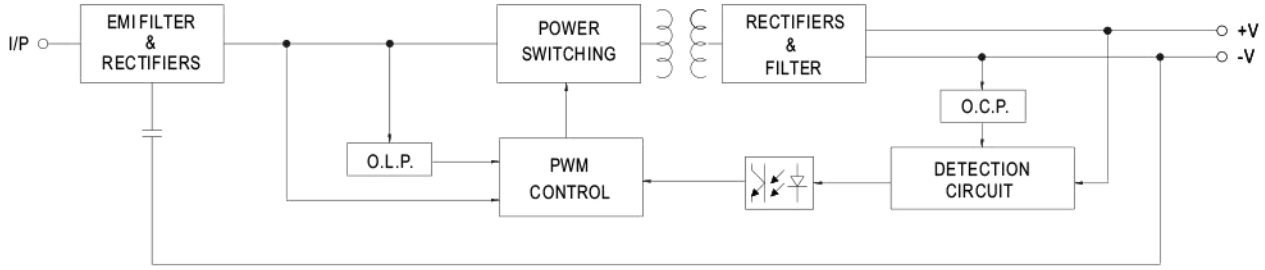



## ■ Recommend Mounting Direction

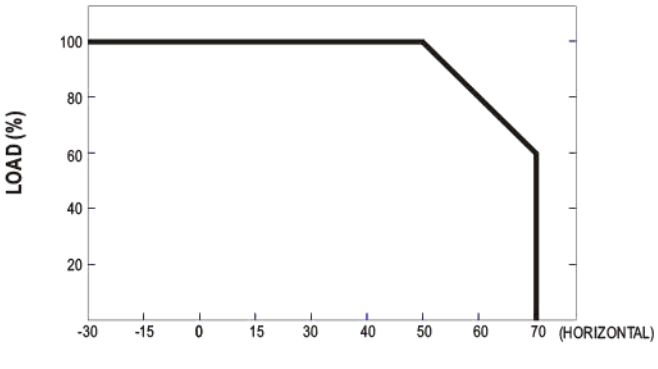


## ■ Block Diagram

fosc: 60KHz




## ■ Derating Curve




## ■ Static Characteristics

