



# 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.8)
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

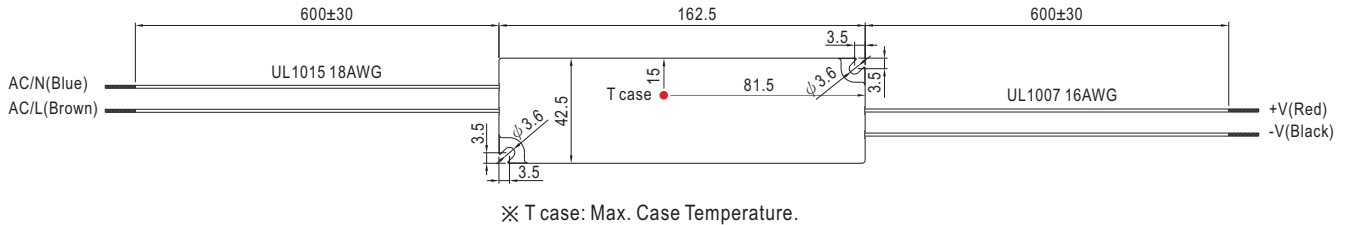


### SPECIFICATION

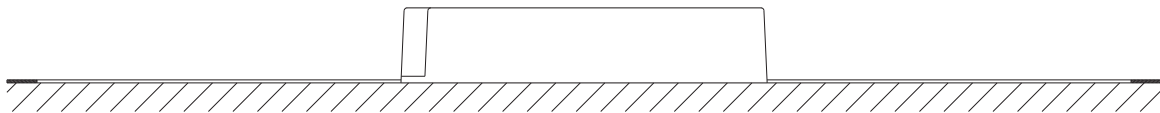
| MODEL               | LPC-60-1050  | LPC-60-1400   | LPC-60-1750           |              |
|---------------------|--|---|-----------------------|--------------|
| OUTPUT              | RATED CURRENT  | 1050mA  | 1400mA                | 1750mA       |
|                     | DC VOLTAGE RANGE   | 9 ~ 48V   | 9 ~ 42V               | 9 ~ 34V      |
|                     | RATED POWER  | 50.4W   | 58.8W                 | 59.5W        |
|                     | RIPPLE & NOISE (max.) Note.2   | 200mVp-p  | 200mVp-p              | 200mVp-p     |
|                     | VOLTAGE TOLERANCE Note.3   | ±5.0%   |                       |              |
|                     | CURRENT ACCURACY   | ±5.0%   |                       |              |
|                     | LINE REGULATION  | ±1.0%   |                       |              |
|                     | LOAD REGULATION  | ±2.0%   |                       |              |
|                     | SETUP, RISE TIME Note.6  | 500ms, 120ms / 230VAC   | 500ms, 120ms / 115VAC | at full load |
| HOLD UP TIME (Typ.) | 50ms/230VAC  | 16ms/115VAC   | at full load          |              |
| INPUT               | VOLTAGE RANGE Note.4   | 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   |                       |              |
| PROTECTION          | LEAKAGE CURRENT  | 0.25mA / 240VAC   |                       |              |
|                     | OVER VOLTAGE   | 50.4 ~ 60V  | 44.1 ~ 56.7V          | 39.1 ~ 45.9V |
| ENVIRONMENT         | WORKING TEMP.  | -30 ~ +70°C (Refer to "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   | UL1310, CAN/CSA C22.2 No. 223-M91(for LPC-60-1750 only), IP67, IEC60950-1:2005+A2:2013 approved ; design refer to TUV EN60950-1 |                       |              |
|                     | WITHSTAND VOLTAGE  | I/P-O/P:3KVAC   |                       |              |
|                     | ISOLATION RESISTANCE   | I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH  |                       |              |
|                     | EMC EMISSION   | Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3   |                       |              |
| OTHERS              | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A   |                       |              |
|                     | MTBF   | 732Khrs min. MIL-HDBK-217F (25°C)   |                       |              |
|                     | DIMENSION  | 162.5*42.5*32mm (L*W*H)   |                       |              |
| NOTE                | PACKING  | 0.4Kg; 32pcs/13.8Kg/0.56CUFT  |                       |              |
|                     | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf &amp; 47µf 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 static characteristics for more details.</p> <p>5. 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.</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> <p>7. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.</p> <p>8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</p> |   |                       |              |

**Mechanical Specification**

Case No. 976A Unit:mm

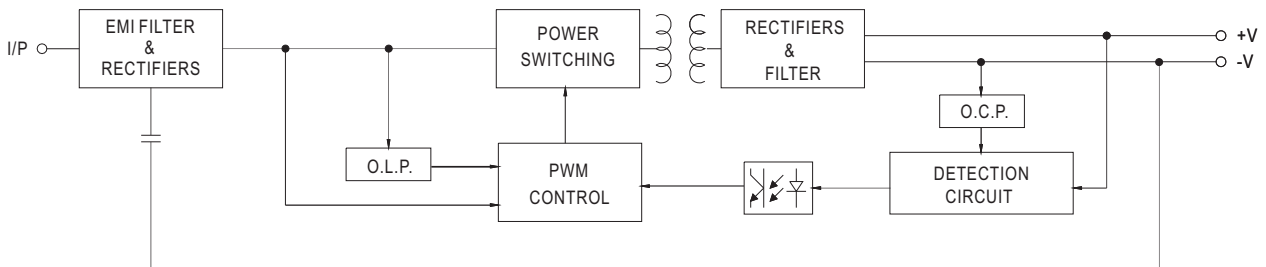


**Recommend Mounting Direction**

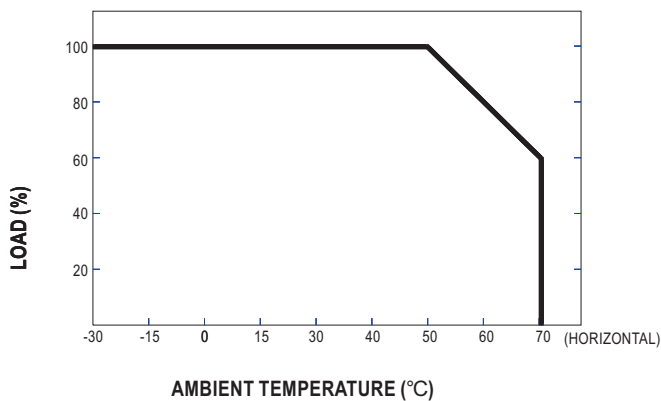


**Block Diagram**

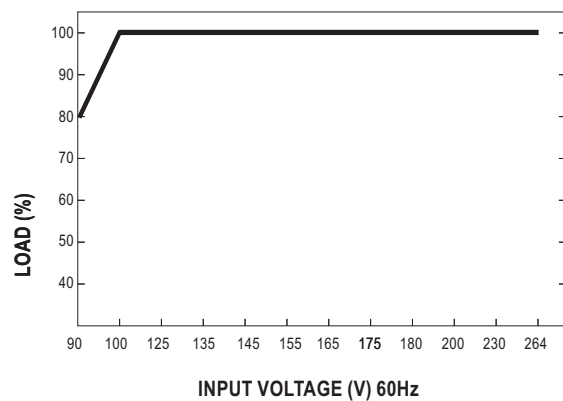
fosc : 60KHz



**Derating Curve**



**Static Characteristics**



# AMEYA360

## Components Supply Platform

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