

### ■ Features :

- Constant current design
- Universal AC input / Full range
- Fully encapsulated with IP67 level
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over current / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- UL1310 Class 2 power unit, pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications (Note.7)
- 2 years warranty

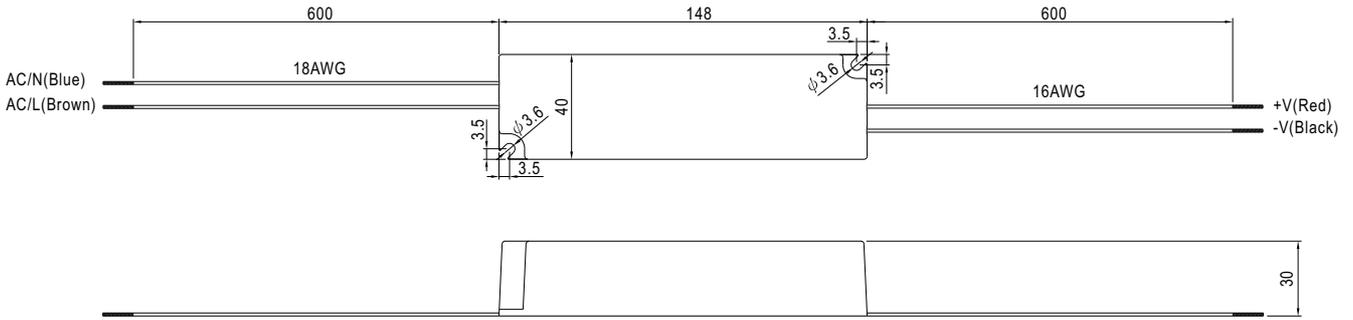
LPS IP67 (for 700mA only) US (except for 700mA)

### SPECIFICATION

| MODEL               | LPC-35-700   | LPC-35-1050   | LPC-35-1400  |              |
|---------------------|--|---|--------------|--------------|
| OUTPUT              | RATED CURRENT  | 700mA   | 1050mA       | 1400mA       |
|                     | DC VOLTAGE RANGE   | 9 ~ 48V   | 9 ~ 30V      | 9 ~ 24V      |
|                     | RATED POWER  | 33.6W   | 31.5W        | 33.6W        |
|                     | RIPPLE & NOISE (max.) Note.2   | 200mVp-p  | 200mVp-p     | 200mVp-p     |
|                     | VOLTAGE TOLERANCE Note.3   | ±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.)  | 85%   |              |              |
|                     | AC CURRENT   | 1.1A/115VAC 0.7A/230VAC   |              |              |
|                     | INRUSH CURRENT(max.)   | COLD START 30A/115VAC 60A/230VAC  |              |              |
| LEAKAGE CURRENT     | 0.25mA / 240VAC  |   |              |              |
| PROTECTION          | CURRENT LIMIT  | ±5% rated output current<br>Protection type : Constant current limiting type  |              |              |
|                     | OVER VOLTAGE   | 50.4 ~ 60V  | 31.5 ~ 40.5V | 27.6 ~ 32.4V |
| ENVIRONMENT         | WORKING TEMP.  | -30 ~ +75°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   | UL1310 Class 2, CAN/CSA C22.2 No. 223-M91(except for LPC-35-700), IP67 approved ; design refer to TUV EN60950-1, EN61347-2-13 |              |              |
|                     | 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 Class A, EN61000-3-3  |              |              |
| EMS IMMUNITY        | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A  |   |              |              |
| OTHERS              | MTBF   | 743.5Khrs min. MIL-HDBK-217F (25°C)   |              |              |
|                     | DIMENSION  | 148*40*30mm (L*W*H)   |              |              |
|                     | PACKING  | 0.34Kg; 40pcs/14.6Kg/0.63CUFT   |              |              |
| NOTE                | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Derating may be needed under low input voltage. Please check the static characteristics for more details.</li> <li>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.</li> <li>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.</li> <li>7. In the European market this power supply can be used for LED lighting applications with input power up to 25W.</li> </ol> |   |              |              |

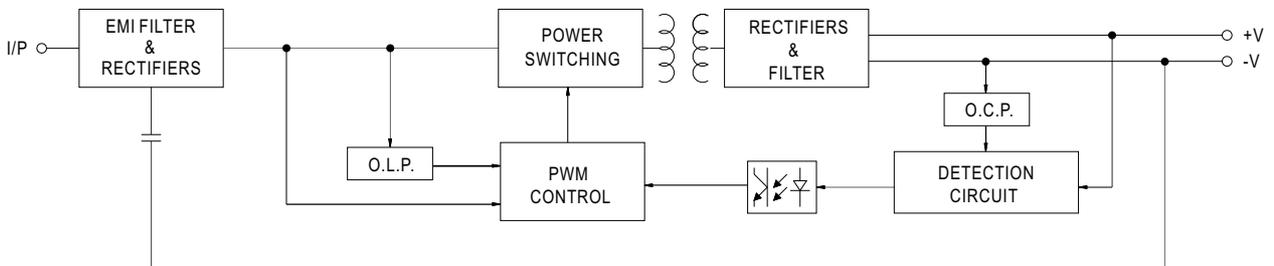
**Mechanical Specification**

Case No. 975A Unit:mm

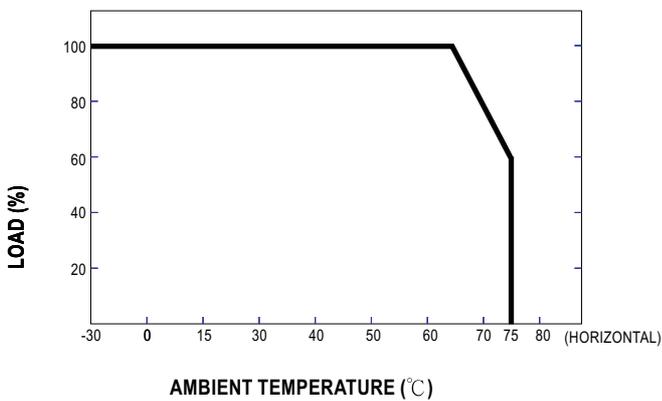


**Block Diagram**

fosc : 60KHz



**Derating Curve**



**Static Characteristics**

