



■ Features :

- Constant current design
- 180~305VAC input only
- High efficiency up to 90%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.6)
- Fully isolated plastic case
- Class II power unit, no FG
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty (Note.4)

IS 15885(Part.2/Sec13)

R-41027766

(for 700mA,1050mA,1400mA,2800mA only)

IP67



SPECIFICATION

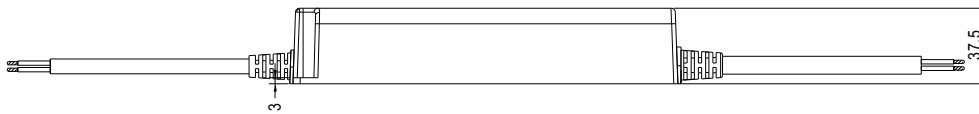
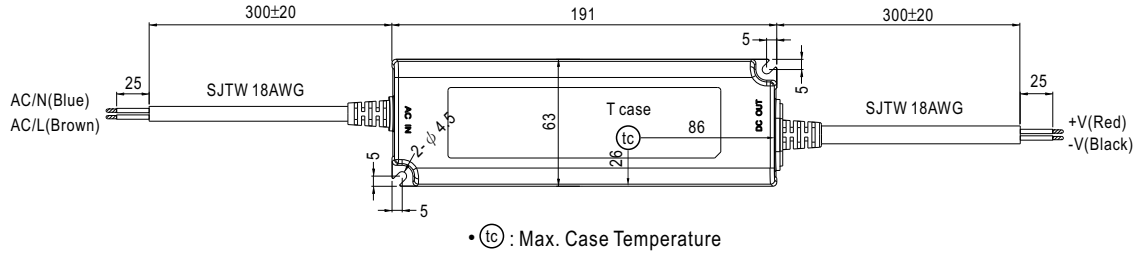
| MODEL               | LPC-150-350                             | LPC-150-500  | LPC-150-700 | LPC-150-1050    | LPC-150-1400 | LPC-150-1750 | LPC-150-2100 | LPC-150-2450 | LPC-150-2800 | LPC-150-3150 |           |  |
|---------------------|---|--|-------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|--|
| OUTPUT              | RATED CURRENT                           | 350mA  | 500mA       | 700mA           | 1050mA       | 1400mA       | 1750mA       | 2100mA       | 2450mA       | 2800mA       | 3150mA    |  |
|                     | CURRENT ACCURACY                        | ±5.0%  |             |                 |              |              |              |              |              |              |           |  |
|                     | CONSTANT CURRENT REGION Note.5          | 215 ~ 430V   | 150 ~ 300V  | 107V ~ 215V     | 72V ~ 144V   | 54V ~ 108V   | 43V ~ 86V    | 36V ~ 72V    | 31V ~ 62V    | 27V ~ 54V    | 24V ~ 48V |  |
|                     | RATED POWER                             | 150.5W   | 150W        | 150.5W          | 151.2W       | 151.2W       | 150.5W       | 151.2W       | 151.9W       | 151.2W       | 151.2W    |  |
|                     | RIPPLE CURRENT                          | ±5%  |             |                 |              |              |              |              |              |              |           |  |
|                     | RIPPLE & NOISE                          | 2Vp-p  | 1.5Vp-p     | 1Vp-p           | 1Vp-p        | 1Vp-p        | 1Vp-p        | 1Vp-p        | 1Vp-p        | 1Vp-p        | 1Vp-p     |  |
|                     | VOLTAGE TOLERANCE                       | ±2.0%  |             |                 |              |              |              |              |              |              |           |  |
|                     | LINE REGULATION                         | ±1%  |             |                 |              |              |              |              |              |              |           |  |
|                     | SETUP, RISE TIME                        | 1000ms, 80ms / 230VAC at full load   |             |                 |              |              |              |              |              |              |           |  |
| HOLD UP TIME (Typ.) | 16ms/230VAC at full load                |  |             |                 |              |              |              |              |              |              |           |  |
| INPUT               | VOLTAGE RANGE Note.2                    | 180 ~ 305VAC   |             | 254VDC ~ 431VDC |              |              |              |              |              |              |           |  |
|                     | FREQUENCY RANGE                         | 47 ~ 63Hz  |             |                 |              |              |              |              |              |              |           |  |
|                     | EFFICIENCY (Typ.)                       | 90%  |             |                 |              |              |              |              |              |              |           |  |
|                     | AC CURRENT (Typ.)                       | 1.7 A / 230VAC   |             | 1.5A / 277VAC   |              |              |              |              |              |              |           |  |
|                     | INRUSH CURRENT (Typ.)                   | COLD START 40A(twidth=750µs 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 / 277VAC                        |  |             |                 |              |              |              |              |              |              |           |  |
| PROTECTION          | SHORT CIRCUIT                           | Hiccup mode, recovers automatically after fault condition is removed                               |             |                 |              |              |              |              |              |              |           |  |
|                     | OVER VOLTAGE                            | 440 ~ 470V   | 330 ~ 365V  | 235 ~ 265V      | 158 ~ 188V   | 115 ~ 135V   | 96 ~ 115V    | 80 ~ 97V     | 69 ~ 80V     | 63 ~ 75V     | 55 ~ 65V  |  |
|                     | OVER TEMPERATURE                        | Shut down o/p voltage, recovers automatically after temperature goes down                          |             |                 |              |              |              |              |              |              |           |  |
| ENVIRONMENT         | WORKING TEMP.                           | -25 ~ +50°C (Refer to "Derating Curve")  |             |                 |              |              |              |              |              |              |           |  |
|                     | WORKING HUMIDITY                        | 10 ~ 95% RH non-condensing   |             |                 |              |              |              |              |              |              |           |  |
|                     | STORAGE TEMP., HUMIDITY                 | -40 ~ +70°C, 10 ~ 95% RH   |             |                 |              |              |              |              |              |              |           |  |
|                     | TEMP. COEFFICIENT                       | ±0.03%/°C (0 ~ 50°C)   |             |                 |              |              |              |              |              |              |           |  |
| SAFETY & EMC        | VIBRATION                               | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                            |             |                 |              |              |              |              |              |              |           |  |
|                     | SAFETY STANDARDS                        | BIS IS15885(for 700mA,1050mA,1400mA,2800mA only), EAC TP TC 004, IP67;IEC/EN 62368-1 approved;     |             |                 |              |              |              |              |              |              |           |  |
|                     | WITHSTAND VOLTAGE                       | I/P-O/P:3KVAC  |             |                 |              |              |              |              |              |              |           |  |
|                     | ISOLATION RESISTANCE                    | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH   |             |                 |              |              |              |              |              |              |           |  |
|                     | EMC EMISSION                            | Compliance to EN55032(CISPR32) Class B; EN61000-3-2 Class A(≤80% load); EN61000-3-3, EAC TP TC 020 |             |                 |              |              |              |              |              |              |           |  |
| OTHERS              | EMC IMMUNITY                            | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level , criteria A, EAC TP TC 020  |             |                 |              |              |              |              |              |              |           |  |
|                     | MTBF                                    | 479K hrs min. MIL-HDBK-217F (25°C)   |             |                 |              |              |              |              |              |              |           |  |
|                     | DIMENSION                               | 191*63*37.5mm (L*W*H)  |             |                 |              |              |              |              |              |              |           |  |
|                     | PACKING                                 | 0.74Kg; 20pcs/15.8Kg/0.95CUFT  |             |                 |              |              |              |              |              |              |           |  |

**NOTE**

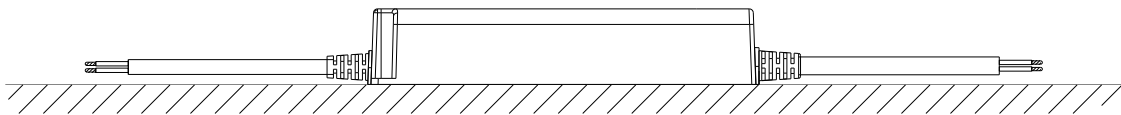
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
3. The power supply is considered as a component that will be operated in combination 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.
4. Refer to warranty statement.
5. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
6. Suitable for indoor use or outdoor use without direct sunlight exposure, please avoid immerse in the water over 30minutes.
7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/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](https://www.meanwell.com/Upload/PDF/LED_EN.pdf)
9. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)
10. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains.

■ Mechanical Specification

Case No. LPC-150 Unit:mm

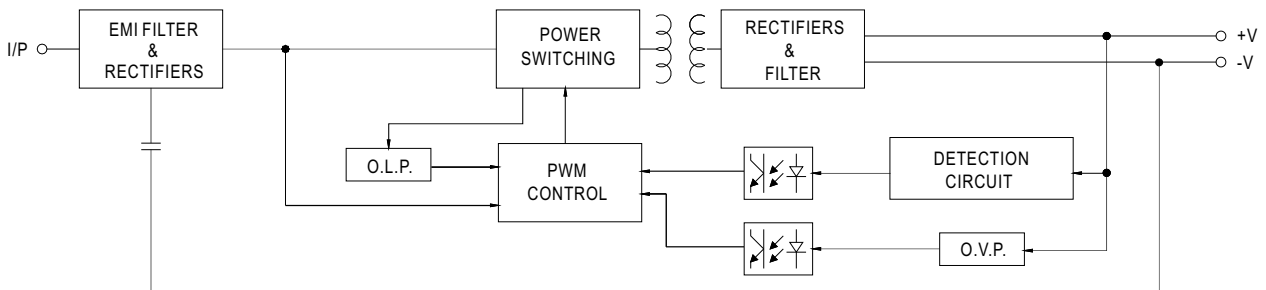


■ Recommend Mounting Direction

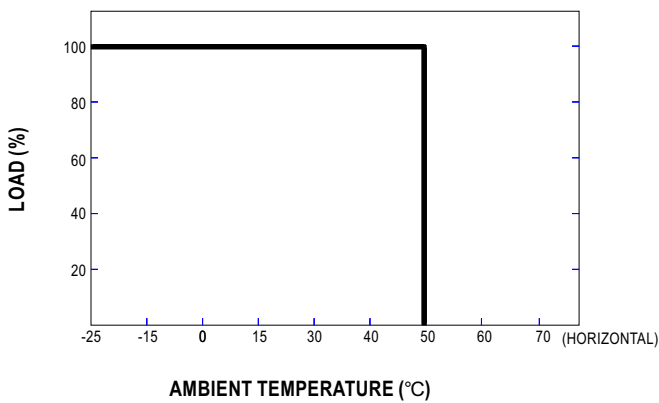


■ Block Diagram

PWM fosc : 67KHz



■ Derating Curve



■ Static Characteristics

