



■ Features :

- 180-264VAC input only
- Fully encapsulated with IP67 level (Note.5)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Class II power unit, no FG
- Pass LPS
- 100% full load burn-in test
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- High reliability / Low cost
- 2 years warranty

IS 15885(Part 2/Sec13)



R-41027766  
(except for LPH-18-36)



**EAC CB CE**

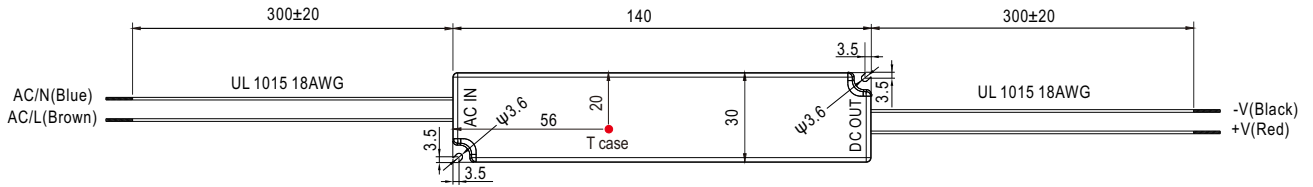
**SPECIFICATION**

**LPS IP67**

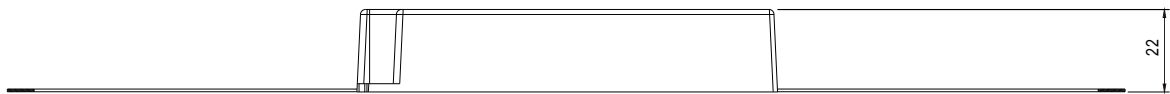
| MODEL                 |  | LPH-18-12  | LPH-18-24    | LPH-18-36    |
|-----------------------|--|--|--------------|--------------|
| OUTPUT                | DC VOLTAGE   | 12V  | 24V          | 36V          |
|                       | RATED CURRENT  | 1.5A   | 0.75A        | 0.5A         |
|                       | CURRENT RANGE  | 0 ~ 1.5A   | 0 ~ 0.75A    | 0 ~ 0.5A     |
|                       | RATED POWER  | 18W  | 18W          | 18W          |
|                       | RIPPLE & NOISE (max.) Note.2   | 120mVp-p   | 150mVp-p     | 200mVp-p     |
|                       | VOLTAGE TOLERANCE Note.3   | ±3.0%  |              |              |
|                       | LINE REGULATION  | ±1.0%  |              |              |
|                       | LOAD REGULATION  | ±2.0%  |              |              |
|                       | SETUP, RISE TIME   | 1500ms, 30ms / 230VAC  |              |              |
| HOLD UP TIME (Typ.)   | 50ms/230VAC at full load   |  |              |              |
| INPUT                 | VOLTAGE RANGE  | 180 ~ 264VAC    254 ~ 370VDC   |              |              |
|                       | FREQUENCY RANGE  | 47 ~ 63Hz  |              |              |
|                       | EFFICIENCY(Typ.)   | 77%  | 82%          | 83%          |
|                       | AC CURRENT   | 0.3A/230VAC  |              |              |
|                       | INRUSH CURRENT(Typ.)   | COLD START 50A(twidth=155µs measured at 50% Ipeak) at 230VAC   |              |              |
|                       | MAX. No. of PSUs on 16A CIRCUIT BREAKER  | 17 units (circuit breaker of type B) / 28 units (circuit breaker of type C) at 230VAC  |              |              |
| LEAKAGE CURRENT       | 0.25mA / 240VAC  |  |              |              |
| PROTECTION            | OVERLOAD   | Above 105% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed              |              |              |
|                       | OVER VOLTAGE   | 13.8 ~ 16.2V   | 27.6 ~ 32.4V | 41.4 ~ 48.6V |
|                       | OVER TEMPERATURE   | Hiccup mode, recovers automatically after temperature goes down  |              |              |
| 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 (Note 4) | SAFETY STANDARDS   | IEC/EN 62368-1, BIS IS15885(except for LPH-18-36), EAC TP TC 004, IP67 approved; design refer to UL1310 Class 2, CAN/CSA No. 223-M91 |              |              |
|                       | 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, EN61000-3-3, EAC TP TC 020   |              |              |
|                       | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020                                     |              |              |
| OTHERS                | MTBF   | 1200.6K hrs min.    MIL-HDBK-217F (25°C)   |              |              |
|                       | DIMENSION  | 140*30*22(L*W*H)   |              |              |
|                       | PACKING  | 0.175Kg; 70pcs/13.3Kgs/0.71CUFT  |              |              |
| 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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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.</p> <p>5. Suitable for indoor use or outdoor use without direct sunlight exposure.</p> <p>6. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)</p> <p>7. 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.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |  |              |              |

### Mechanical Specification

Unit:mm



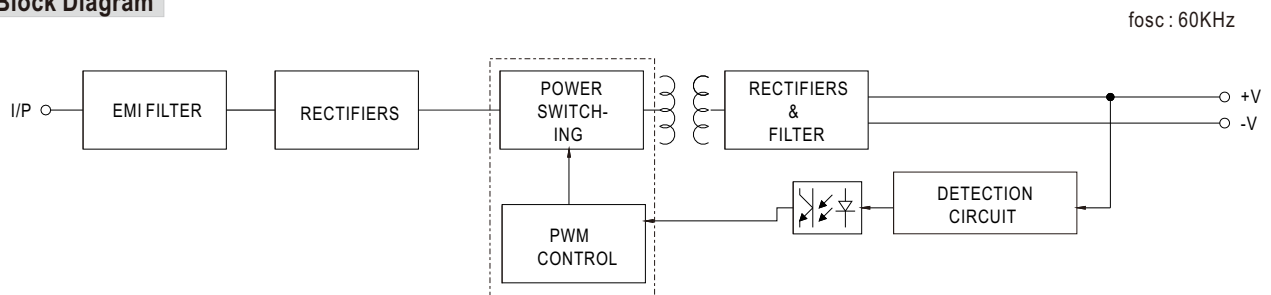
※ T case: Max. Case Temperature



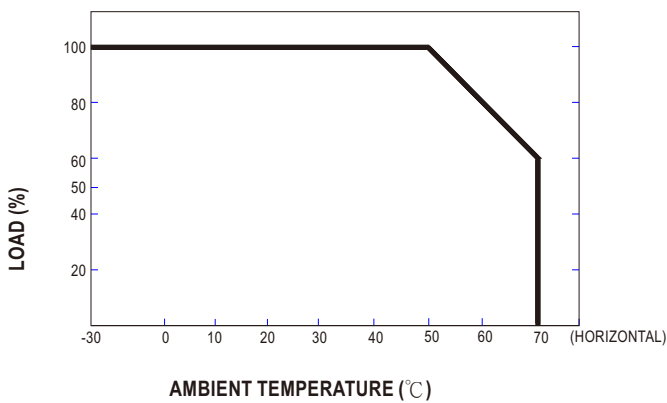
### Recommend Mounting Direction



### Block Diagram



### Derating Curve



### Static Characteristics

