



# 18W Single Output Switching Power Supply

# LPH-18 series



- 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



## ■ GTIN CODE

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

IS 15885(Part 2/Sec13)



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



## 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/BS EN/EN 62368-1, BIS IS15885(except for LPH-18-36), EAC TP TC 004, IP67 approved; design refer to UL 1310 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 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   | 7827.3K hrs min. Telcordia SR-332 (Bellcore); 1311.1Khrs min. MIL-HDBK-217F (25°C)  |            |              |
|                       | DIMENSION  | 140*30*22(L*W*H)  |            |              |
|                       | PACKING  | 0.175Kg; 70pcs/13.3Kgs/0.71CUFT   |            |              |
| 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 0.1µf &amp; 47µf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> <li>5. Suitable for indoor use or outdoor use without direct sunlight exposure.</li> <li>6. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)</li> <li>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.</li> </ol> ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |   |            |              |