### Features:
- 180-264VAC input only
- Fully encapsulated with IP67 level (Note.5)
- Protection: 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

### SPECIFICATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>RATED CURRENT</th>
<th>CURRENT RANGE</th>
<th>RIPPLE &amp; NOISE (max.)</th>
<th>VOLTAGE TOLERANCE</th>
<th>LINE REGULATION</th>
<th>RATED POWER</th>
<th>RATED CURRENT</th>
<th>HOLD UP TIME (Typ.)</th>
<th>VOLTAGE RANGE</th>
<th>HOLD UP TIME (Typ.)</th>
<th>VOLTAGE RANGE</th>
<th>MOUNTING SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPH-18-12</td>
<td>12V</td>
<td>1.5A</td>
<td>0 ~ 1.5A</td>
<td>120mVp-p</td>
<td>±3.0%</td>
<td>±1.0%</td>
<td>18W</td>
<td>1.5A</td>
<td>1500ms, 30ms / 230VAC</td>
<td>180 ~ 264VAC</td>
<td>254 ~ 370VDC</td>
<td>47 ~ 63Hz</td>
<td>140<em>30</em>22(L<em>W</em>H)</td>
</tr>
<tr>
<td>LPH-18-24</td>
<td>24V</td>
<td>0.75A</td>
<td>0 ~ 0.75A</td>
<td>150mVp-p</td>
<td>±3.0%</td>
<td>±1.0%</td>
<td>18W</td>
<td>0.75A</td>
<td>50ms/230VAC at full load</td>
<td>24V</td>
<td>2.5V ~ 370VDC</td>
<td>47 ~ 63Hz</td>
<td>140<em>30</em>22(L<em>W</em>H)</td>
</tr>
<tr>
<td>LPH-18-36</td>
<td>36V</td>
<td>0.5A</td>
<td>0 ~ 0.5A</td>
<td>200mVp-p</td>
<td>±3.0%</td>
<td>±1.0%</td>
<td>18W</td>
<td>0.5A</td>
<td>10ms / 230VAC</td>
<td>36V</td>
<td>2.5V ~ 370VDC</td>
<td>47 ~ 63Hz</td>
<td>140<em>30</em>22(L<em>W</em>H)</td>
</tr>
</tbody>
</table>

### Note:
- (Refer to “Derating Curve”)
- MIL-HDBK-217F (25°C)

### Environment:
- Working Temp: -30~+70°C
- Storage Temp.: -40~+80°C
- Temp. Coefficient: ±0.3%/°C (0 ~ 50°C)
- Humidity: 20 ~ 90% RH non-condensing
- Vibration: 10 ~ 500Hz, 2G

### 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
- ISO 9001, TS 16949, ISO 14001, OHSAS 18001, RoHS Compliant
- EMC Emission: Compliance to EN55022 Class B, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020
- EMC Immunity: Compliance to EN61000-2-3, EN61000-2-4, EN61000-2-5, EN61000-2-6, EN61000-2-9, EN60601-1-2, EN55024, light industry level, criteria A, EAC TP TC 020

### Others:
- MTBF: 1200.6K hrs min.
- Protection Type: Hiccup mode, recovers automatically after fault condition is removed
- Protection Type: Shut off o/p voltage, clamping by zener diode
- Pinout for EAC TP TC 020, MIL-HDBK-217F (25°C)
- MIL-S-25339, MIL-STD-188-104
- MIL-STD-810F, MIL-STD-810G
- MIL-STD-704C, MIL-STD-704D
- MIL-STD-202F
- MIL-STD-461E
- EN55022 Class B
- EN61000-3-2 Class A
- EN61000-3-3
- EN60601-1-2
- EN55024
- EN61000-2-3
- EN61000-2-4
- EN61000-2-5
- EN61000-2-6
- EN61000-2-9
- EN60601-1-2
- EN55024
- EN61000-2-3
- EN61000-2-4
- EN61000-2-5
- EN61000-2-6
- EN61000-2-9
- EN60601-1-2
- EN55024

### Note:
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
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 manufactures must re-qualify EMC Directive on the complete installation again.
5. Suitable for indoor use or outdoor use without direct sunlight exposure.
6. This product is not intended for LED applications in the EU. (In the EU NIF/LPF/XLG series are recommended.)
7. To fulfill requirements of latest EMI regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains.
8. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx
18W Single Output Switching Power Supply

LPH-18 series

### Mechanical Specification

![Mechanical Diagram]

- **Unit:mm**
- **AMBIENT TEMPERATURE (℃)**
- **LOAD (%)**
- **-30**
- **0**
- **10**
- **20**
- **30**
- **40**
- **50**
- **70**
- **-30**
- **0**
- **10**
- **20**
- **30**
- **40**
- **50**
- **70**

**Remarks:**
- T case: Max. Case Temperature

### Recommend Mounting Direction

![Recommend Mounting Diagram]

### Block Diagram

![Block Diagram]

- **fosc : 60KHz**
- **RECTIFIERS**
- **POWER SWITCHING**
- **EMI FILTER**
- **PWM CONTROL**
- **RECTIFIERS & FILTER**
- **DETECTION CIRCUIT**
- **+V**
- **-V**

### Derating Curve

![Derating Curve]

- **LOAD (%)**
- **AMBIENT TEMPERATURE (℃)**
- **-30**
- **0**
- **10**
- **20**
- **30**
- **40**
- **50**
- **60**
- **70**

### Static Characteristics

![Static Characteristics]

- **LOAD (%)**
- **INPUT VOLTAGE (VAC) 60Hz**
- **180**
- **190**
- **200**
- **210**
- **220**
- **230**
- **240**
- **250**
- **264**

File Name: LPH-18-SPEC  2020-10-14
Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MEAN WELL:
LPH-18-24  LPH-18-12  LPH-18-36