



■ Features :

- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- IP42 design
- Class II power unit, no FG
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty



■ GTIN CODE

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

IS 15885(Part 2/Sec13)

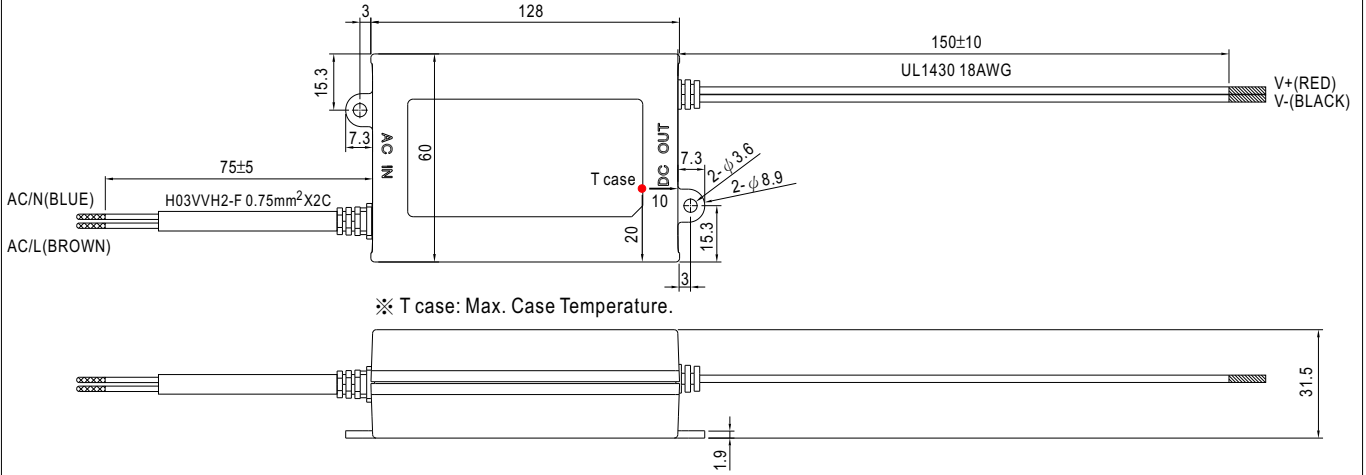


SPECIFICATION

| MODEL           | PLD-60-500B  | PLD-60-700B   | PLD-60-1050B | PLD-60-1400B | PLD-60-1750B | PLD-60-2000B | PLD-60-2400B |         |
|-----------------|--|---|--------------|--------------|--------------|--------------|--------------|---------|
| OUTPUT          | RATED CURRENT  | 500mA   | 700mA        | 1050mA       | 1400mA       | 1750mA       | 2400mA       |         |
|                 | OPERATING VOLTAGE RANGE  | 70 ~ 108V   | 50 ~ 86V     | 34 ~ 57V     | 25 ~ 43V     | 20 ~ 34V     | 18 ~ 30V     |         |
|                 | CURRENT ACCURACY   | ±5.0%   |              |              |              |              |              |         |
|                 | RATED POWER  | 54W   | 60.2W        | 59.85W       | 60.2W        | 59.5W        | 60W          | 60W     |
|                 | RIPPLE & NOISE (max.) Note.1   | 10.2Vp-p  | 5.6Vp-p      | 3.8Vp-p      | 3.4Vp-p      | 3.3Vp-p      | 2.4Vp-p      | 2.4Vp-p |
|                 | NO LOAD OUTPUT VOLTAGE (max.)  | 118V  | 100V         | 63V          | 50V          | 50V          | 35V          | 35V     |
| SETUP TIME      | 500ms / 230VAC at full load  |   |              |              |              |              |              |         |
| INPUT           | VOLTAGE RANGE  | 180~295VAC  |              |              |              |              |              |         |
|                 | FREQUENCY RANGE  | 47 ~ 63Hz   |              |              |              |              |              |         |
|                 | POWER FACTOR (Typ.)  | PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)   |              |              |              |              |              |         |
|                 | TOTAL HARMONIC DISTORTION  | THD< 20% when output loading≥60%(PLD-60-500B loading≥65%) at 230VAC input and output loading≥75% at 277VAC input                          |              |              |              |              |              |         |
|                 | EFFICIENCY (Typ.)  | 88%   | 87%          | 87%          | 86%          | 86%          | 86%          | 86%     |
|                 | AC CURRENT (Typ.)  | 0.6A/230VAC   |              | 0.5A/277VAC  |              |              |              |         |
|                 | INRUSH CURRENT(Typ.)   | COLD START 25A (twidth=60μs measured at 50% Ipeak) at 230VAC  |              |              |              |              |              |         |
|                 | MAX. No. of PSUs on 16A CIRCUIT BREAKER  | 32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC   |              |              |              |              |              |         |
| LEAKAGE CURRENT | <0.5mA / 240VAC  |   |              |              |              |              |              |         |
| PROTECTION      | SHORT CIRCUIT  | Hiccup mode, recovers automatically after fault condition is removed.   |              |              |              |              |              |         |
|                 | OVER TEMPERATURE   | Shut down o/p voltage, auto-recovery  |              |              |              |              |              |         |
| ENVIRONMENT     | WORKING TEMP.  | -30 ~ +45°C (Refer to "Derating Curve")   |              |              |              |              |              |         |
|                 | WORKING HUMIDITY   | 20 ~ 95% RH non-condensing  |              |              |              |              |              |         |
|                 | STORAGE TEMP., HUMIDITY  | -40 ~ +80°C, 10 ~ 95% RH  |              |              |              |              |              |         |
|                 | TEMP. COEFFICIENT  | ±0.03%/°C (0 ~ 50°C)  |              |              |              |              |              |         |
|                 | VIBRATION  | 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes   |              |              |              |              |              |         |
| SAFETY & EMC    | SAFETY STANDARDS   | ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, BIS IS15885(for 700B,1050B,1400B only), EAC TP TC 004, IP42 approved |              |              |              |              |              |         |
|                 | WITHSTAND VOLTAGE  | I/P-O/P:3.75KVAC  |              |              |              |              |              |         |
|                 | ISOLATION RESISTANCE   | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  |              |              |              |              |              |         |
|                 | EMC EMISSION   | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C ; 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/EN61547, light industry level(Surge 2KV), criteria B, EAC TP TC 020                   |              |              |              |              |              |         |
| OTHERS          | MTBF   | 4642.1K hrs min. Telcordia SR-332 (Bellcore) ; 458.9Khrs min. MIL-HDBK-217F (25°C)  |              |              |              |              |              |         |
|                 | DIMENSION  | 128*60*31.5mm (L*W*H)   |              |              |              |              |              |         |
|                 | PACKING  | 0.34Kg;30pcs/11.2Kg/0.58CUFT  |              |              |              |              |              |         |
| NOTE            | <ol style="list-style-type: none"> <li>1. 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>2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</li> <li>3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.</li> <li>4. 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).</li> <li>5. For any application note and IP water proof function installation caution, please refer our user manual before using.<br/><a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></li> </ol> <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> |   |              |              |              |              |              |         |

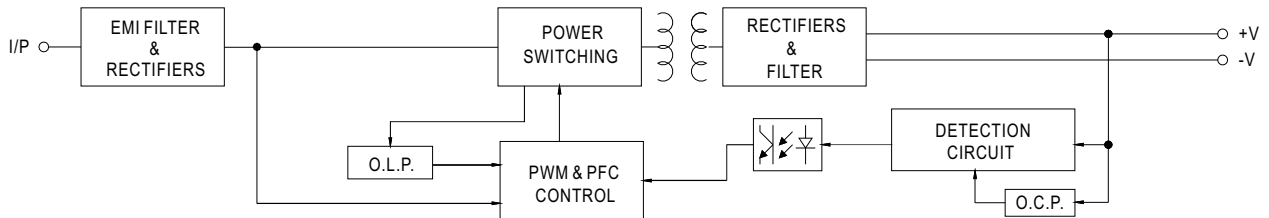
■ Mechanical Specification

Case No. Unit:mm

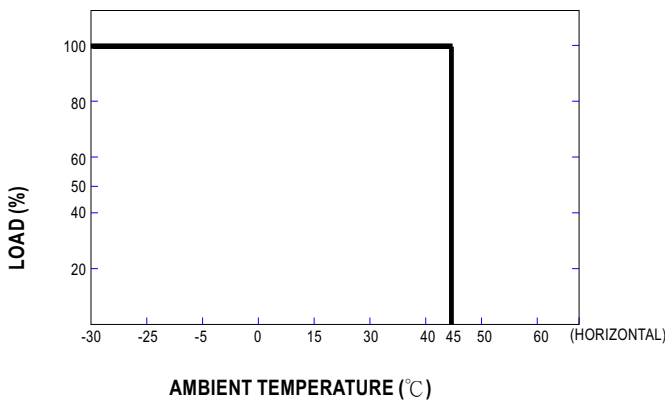


■ Block Diagram

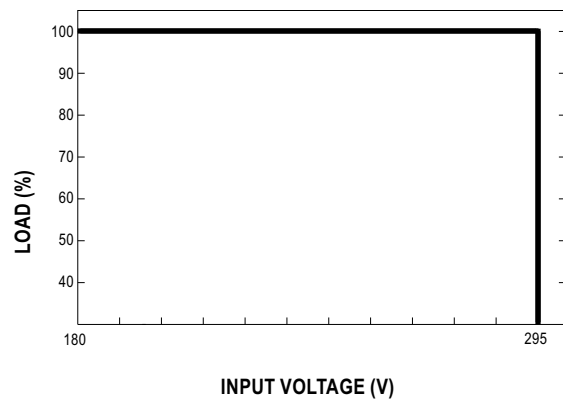
fosc :60KHz(230VAC)



■ Derating Curve

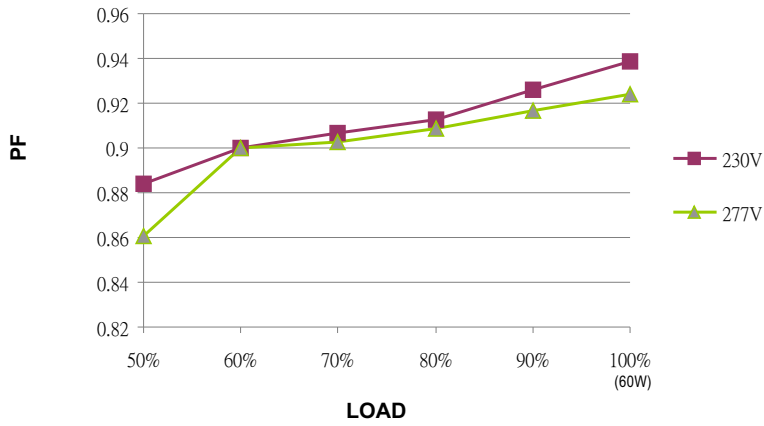


■ Static Characteristics



**Power Factor Characteristic**

Constant Current Mode



**EFFICIENCY vs LOAD (PLD-60-500B)**

PLD-60 series possess superior working efficiency that up to 88% can be reached in field applications.

