



Наличие и актуальные цены на

**PLD-16-1400B**

<https://www.mean-well.ru/store/PLD-16-1400B/>



## 16W Single Output LED Power Supply

## PLD-16 series



### ■ GTIN CODE

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

### ■ Features :

- 115VAC or 230VAC models available
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class 2 Power Unit
- Class II power unit, no FG
- IP42 design
- 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

User's Manual



PLD-16-350 ☐ A : With AC input 90~ 135VAC.  
B : With AC input 180~ 295VAC.

### SPECIFICATION

| MODEL                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PLD-16-350 <input type="checkbox"/>                                                                                                                      | PLD-16-700 <input type="checkbox"/>                                                     | PLD-16-1050 <input type="checkbox"/> | PLD-16-1400 <input type="checkbox"/> |       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|-------|
| OUTPUT                                  | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 350mA                                                                                                                                                    | 700mA                                                                                   | 1050mA                               | 1400mA                               |       |
|                                         | OPERATING VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24 ~ 48V                                                                                                                                                 | 16 ~ 24V                                                                                | 12 ~ 16V                             | 8 ~ 12V                              |       |
|                                         | CURRENT ACCURACY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±5.0%                                                                                                                                                    |                                                                                         |                                      |                                      |       |
|                                         | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16.8W                                                                                                                                                    | 16.8W                                                                                   | 16.8W                                | 16.8W                                |       |
|                                         | RIPPLE & NOISE (max.) Note.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.6Vp-p                                                                                                                                                  | 2.7Vp-p                                                                                 | 2.2Vp-p                              | 2Vp-p                                |       |
|                                         | NO LOAD OUTPUT VOLTAGE (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60V                                                                                                                                                      | 35V                                                                                     | 25V                                  | 16V                                  |       |
|                                         | SETUP TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 500ms / 230VAC 2000ms / 115VAC at full load                                                                                                              |                                                                                         |                                      |                                      |       |
| INPUT                                   | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 47 ~ 63Hz                                                                                                                                                |                                                                                         |                                      |                                      |       |
|                                         | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PF>0.9/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)                                           |                                                                                         |                                      |                                      |       |
|                                         | TOTAL HARMONIC DISTORTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A series                                                                                                                                                 | THD< 20% when output loading≥70% at 115VAC                                              |                                      |                                      |       |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | B series                                                                                                                                                 | THD< 20% when output loading≥70% at 230VAC input and output loading≥80% at 277VAC input |                                      |                                      |       |
|                                         | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A series                                                                                                                                                 | 84.5%                                                                                   | 84.5%                                | 84%                                  | 82.5% |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | B series                                                                                                                                                 | 85.5%                                                                                   | 86%                                  | 85%                                  | 83.5% |
|                                         | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.4A/115VAC 0.2A/230VAC 0.15A/277VAC                                                                                                                     |                                                                                         |                                      |                                      |       |
|                                         | INRUSH CURRENT(Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | COLD START 20A(twidth=25μs measured at 50% Ipeak) at 230VAC                                                                                              |                                                                                         |                                      |                                      |       |
| MAX. No. of PSUs on 16A CIRCUIT BREAKER | A series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 58 units (circuit breaker of type B) / 58 units (circuit breaker of type C) at 115VAC                                                                    |                                                                                         |                                      |                                      |       |
|                                         | B series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 128 units (circuit breaker of type B) / 128 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, re-power on to recover                                                                                                            |                                                                                         |                                      |                                      |       |
| ENVIRONMENT                             | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -30 ~ +50°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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UL8750,CSA C22.2 No.250.0-08;ENEC BS EN/EN 613471-1,BS EN/EN 61347-2-13 independent, BS EN/EN62384(for B type 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 (B type only), BS EN/EN61000-3-2 Class C ; BS EN/EN61000-3-3, FCC part 18 non-consumer equipment(A type only), 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, EAC TP TC 020                                                         |                                                                                         |                                      |                                      |       |
| OTHERS                                  | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6807.7K hrs min. Telcordia SR-332 (Bellcore) ; 872.4Khrs min. MIL-HDBK-217F (25°C)                                                                       |                                                                                         |                                      |                                      |       |
|                                         | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 84*57*29.5mm (L*W*H)                                                                                                                                     |                                                                                         |                                      |                                      |       |
|                                         | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.19Kg; 72pcs/14.7Kg/0.92CUFT                                                                                                                            |                                                                                         |                                      |                                      |       |
| NOTE                                    | 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.<br>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.<br>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).<br>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><br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                          |                                                                                         |                                      |                                      |       |

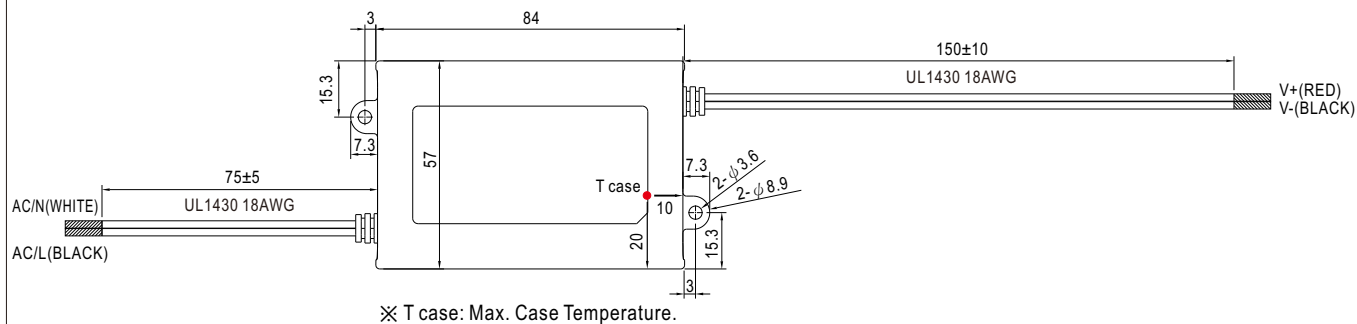
## ■ Mechanical Specification

Case No.PCD16A

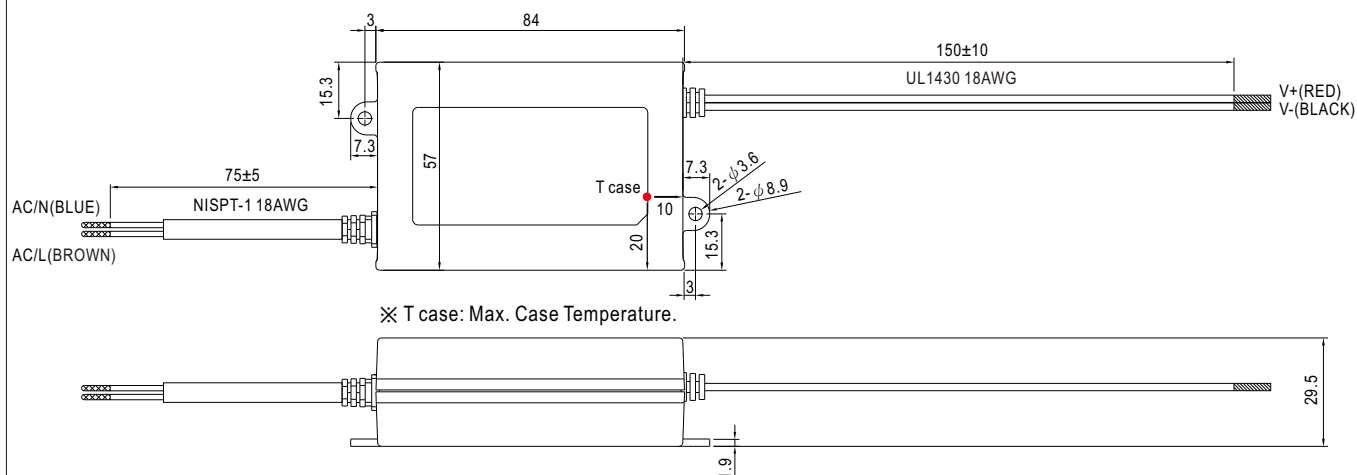
Unit:mm

Tolerance:  $\pm 1$

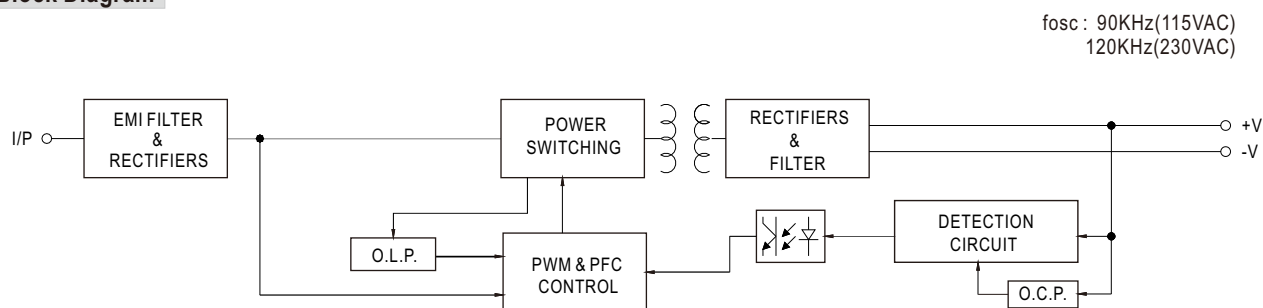
A Type:(PLD-16-\_A)



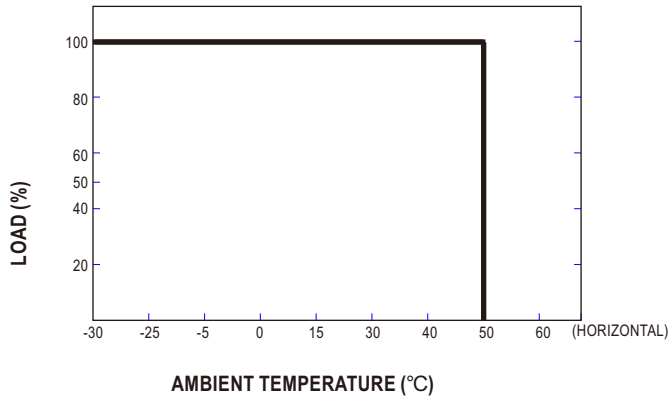
**B Type:(PLD-16-\_B)**



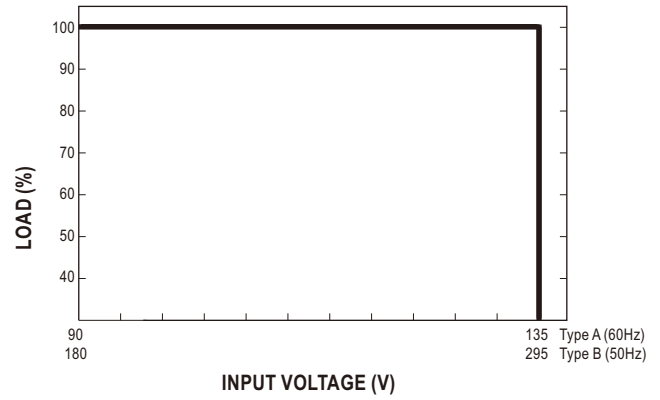
### ■ Block Diagram



## Derating Curve

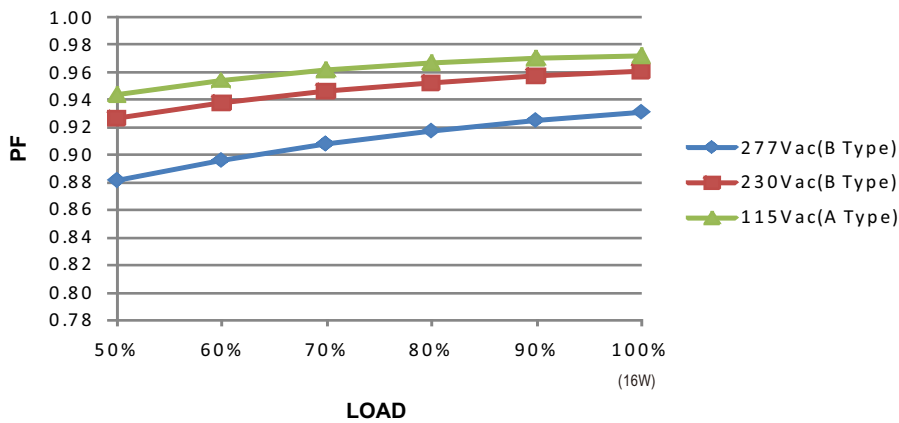


## Static Characteristics



## Power Factor Characteristic

### Constant Current Mode



## EFFICIENCY vs LOAD (PLD-16-350)

PLD-16 series possess superior working efficiency that up to 85.5% can be reached in field applications.

