



### ■ 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
- IP30 design
- Suitable for indoor LED lighting applications
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty



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

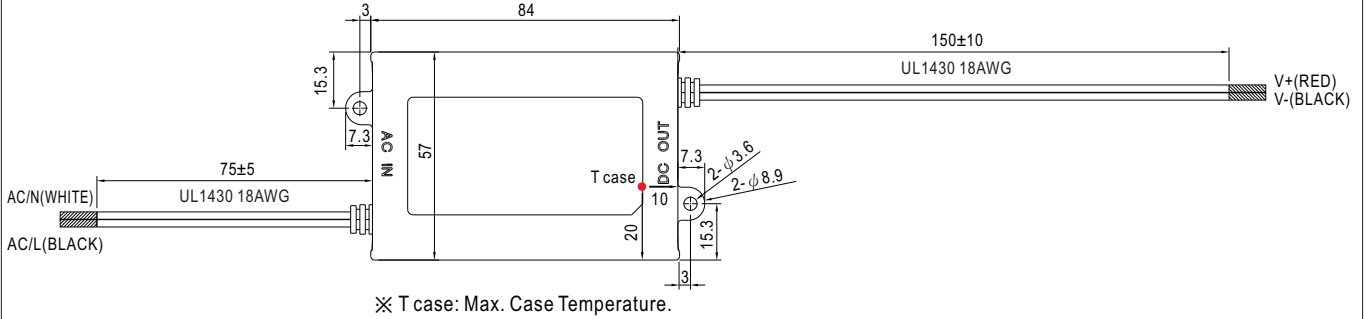
### SPECIFICATION

| 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)                     |                                      |                                      |         |       |
|                      | 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   |  |                                      |                                      |         |       |
| 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  | UL 8750, CSA C22.2 No.250.0-08(except for PLD-16-350);ENEC EN 613471-1,EN 61347-2-13 independent, EN62384(for B type only)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 EN55015 (B type only), EN61000-3-2 Class C ; EN61000-3-3, FCC part 18 non-consumer equipment(A type only)            |                                      |                                      |         |       |
|                      | EMC IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A  |                                      |                                      |         |       |
| OTHERS               | MTBF  | 906.5Khrs 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. |  |                                      |                                      |         |       |

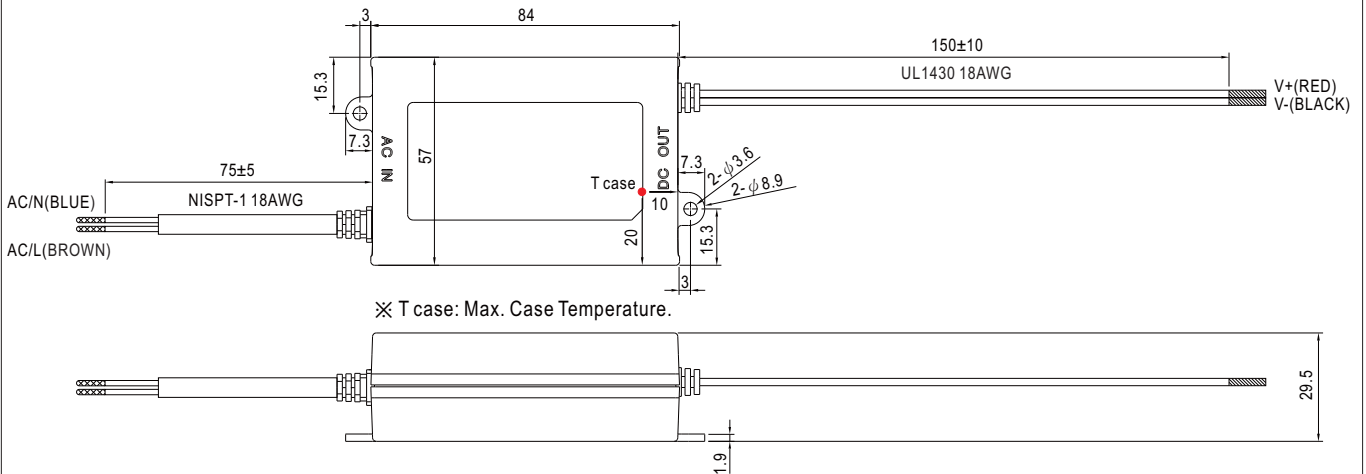
**Mechanical Specification**

Case No.PCD16A Unit:mm

**A Type:(PLD-16\_A)**

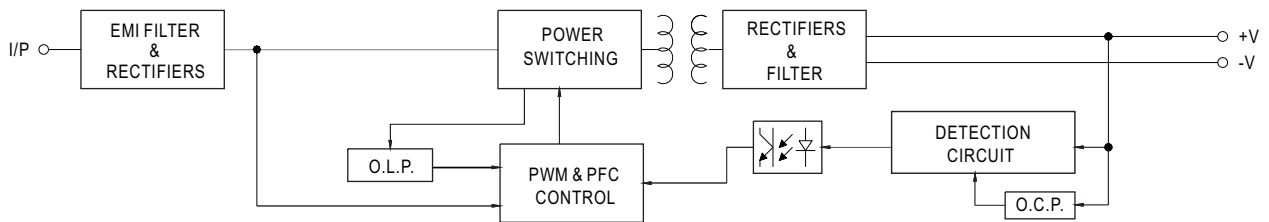


**B Type:(PLD-16\_B)**

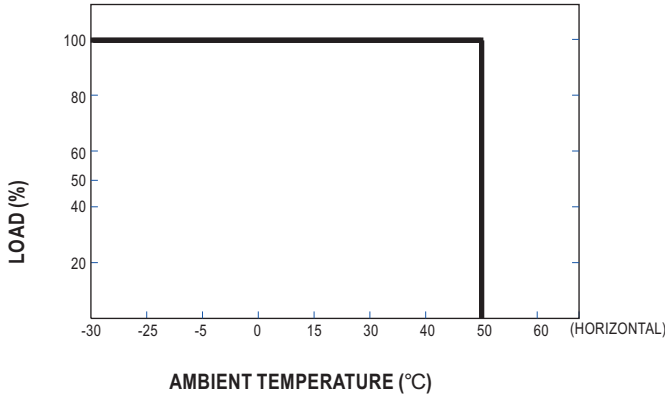


**Block Diagram**

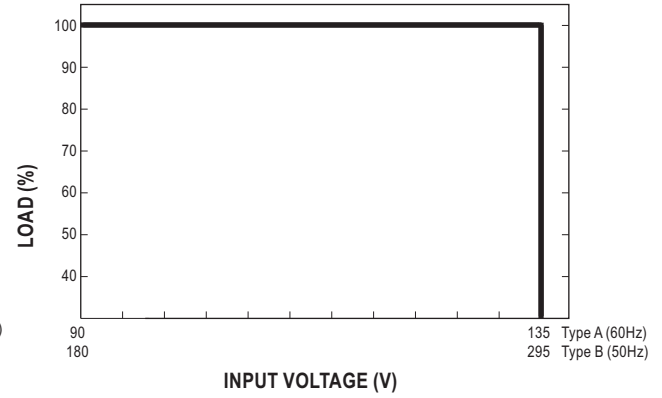
fosc : 90KHz(115VAC)  
120KHz(230VAC)



■ Derating Curve

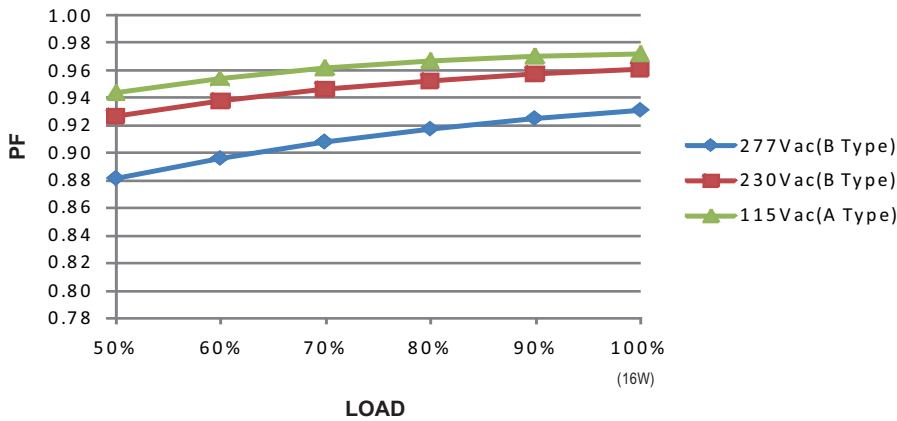


■ Static Characteristics



■ 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.

