

MEAN-WELL PLD-25 Series 25W Single Output LED Power Supply Owner's Manual

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700)

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Features:

- Universal AC input / Full range (up to 295VAC)
- · 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
- · Suitable for dry / damp locations
- 3 years warranty

GTIN CODE

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

SPECIFICATION

| MODEL | | PLD-25-350 | PLD-25-700 | PLD-25-1050 | PLD-25-1400 |
|-------|-----------------------------|------------|------------|-------------|-------------|
| | RATED CURREN T | 350mA | 700mA | 1050mA | 1400mA |
| | OPERATING VOL TAGE RANGE | 40 ~ 58V | 24 ~ 36V | 16 ~ 24V | 12 ~ 18V |

| OUTP UT | CURRENT ACCU RACY | ±5.0% | | | | | |
|---------------------|---|--|---------|---------|-------|--|--|
| | RATED POWER | 20.3W | 25.2W | 25.2W | 25.2W | | |
| | RIPPLE & NOISE (max.) Note.1 | 4.6Vp-p | 2.7Vp-p | 2.2Vp-p | 2Vp-p | | |
| | NO LOAD OUTP UT VOLTAGE (ma x.) | 60V | 50V | 35V | 25V | | |
| | SETUP TIME | 500ms / 230VAC 2000ms / 115VAC at full load | | | | | |
| | VOLTAGE RANG E | 90 ~ 295VAC 127 ~ 417VDC | | | | | |
| | FREQUENCY RA | 47 ~ 63Hz | | | | | |
| | POWER FACTOR (Typ.) | PF>0.98/115VAC, PF>0.92/230VAC, PF>0.91/277VAC at full load (Please refer to "Power Factor Characteristic" curve) | | | | | |
| | TOTAL HARMON IC DISTORTION | THD< 20% when output loading≥70% at 115VAC/230VAC input and output loadin g≥80% at 277VAC input | | | | | |
| INPU T | EFFICIENCY (Ty p.) | 85% | 86% | 85% | 84% | | |
| | AC CURRENT (Ty p.) | 0.6A/115VAC 0.3A/230VAC 0.2A/277VAC | | | | | |
| | INRUSH CURRE NT (Typ.) | COLD START 25A(width=75µs measured at 50% lpeak) at 230VAC | | | | | |
| | MAX. No. of PSU s on 16A CIRCUI T BREAKER | 72 units (circuit breaker of type B) / 80 units (circuit breaker of type C) at 230VAC | | | | | |
| | LEAKAGE CURR ENT | <0.5mA / 240VAC | | | | | |
| PROT | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed. | | | | | |
| ON | OVER TEMPERA TURE | Shut down o/p voltage, re-power on to recover | | | | | |
| | WORKING TEMP. | -30 ~ +60°C (Refer to "Derating Curve") | | | | | |
| ENVI RON MENT | WORKING HUMI DITY | 20 ~ 95% RH non-condensing | | | | | |
| | STORAGE TEMP. , HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICI ENT | ±0.03%/°C (0 ~ 50°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | |
| | SAFETY STAND ARDS | UL8750, CSA C22.2 No. 250.0-08, ENEC BS EN/EN 61347-1, BS EN/EN 61347-2-13 independent, BS EN/EN 62384, EAC TP TC 004, IP42 approved; design refe r to UL60950-1 | | | | | |

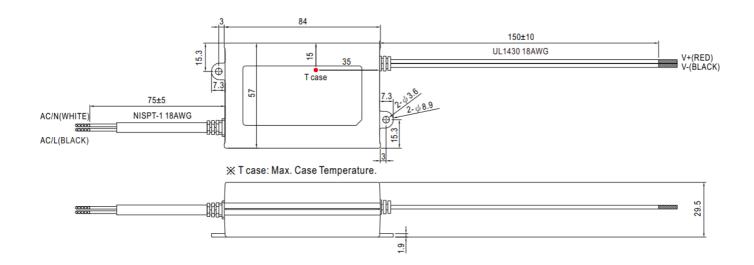
| SAFE TY & EMC | WITHSTAND VO LTAGE | I/P-O/P:3.75KVAC | | | | |
|---------------------|---|--|--|--|--|--|
| | ISOLATION RESI STANCE | I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≦75% load) ; BS EN/EN 61000-3-3, FCC part 18 non-consumer equipment, EAC TP TC 020 | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024,BS EN/EN615 47, light industry level, EAC TP TC 020 | | | | |
| ОТНЕ | MTBF | 5524.2K hrs min. Telcordia SR-332 (Bellcore); 968.2Khrs min. MIL-HDB K-217F (25°C) | | | | |
| RS | DIMENSION | 84*57*29.5mm (L*W*H) | | | | |
| | PACKING | 0.19Kg; 72pcs/14.7Kg/0.75CUFT | | | | |
| NOTE | Ripple & noise are measured at 20 MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 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. The ambient temperature derating of 3.5°CY1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). For any application note and IP waterproof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf Product Liability Disclaimer For detailed information, please refer to | | | | | |

https://www.meanwell.com/serviceDisclaimer.aspx

Mechanical Specification

Case No.PCD16A

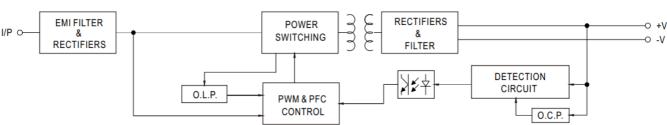
Unit:mm



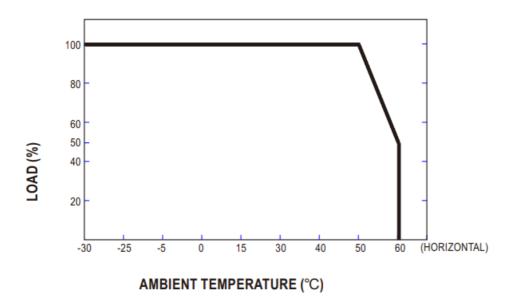
Block Diagram

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

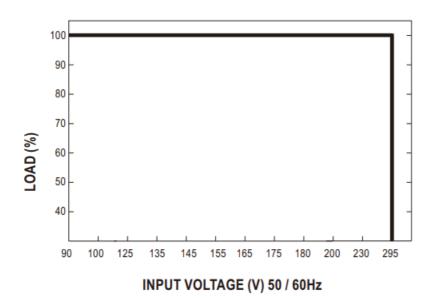
fosc: 90KHz(115VAC) 120KHz(230VAC)



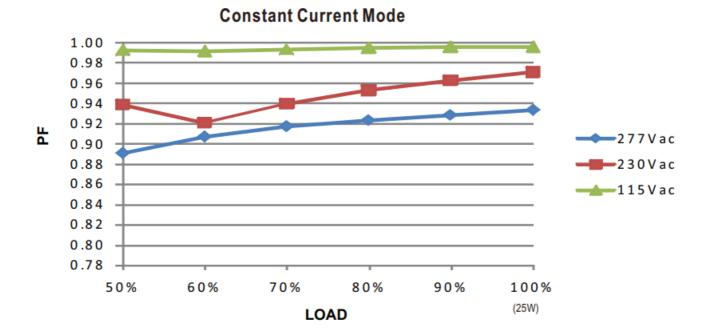
Derating Curve



Static Characteristics

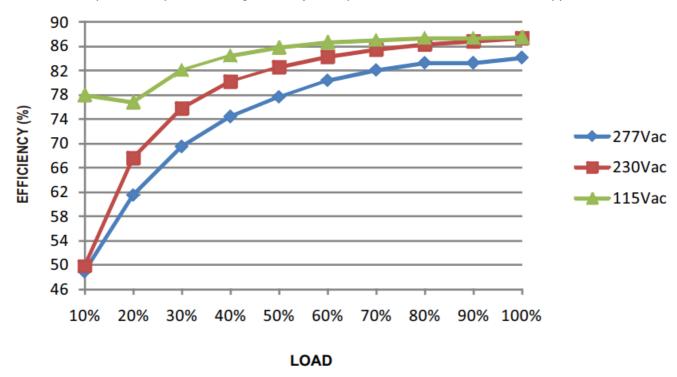


Power Factor Characteristic



EFFICIENCY vs LOAD (PLD-25-700)

PLD-25 series possess superior working efficiency that up to 86% can be reached in field applications.



Customer Support

User Manual



File Name:PLD-25-SPEC 2023-04-14

Downloaded from **Arrow.com**.





Documents / Resources



MEAN-WELL PLD-25 Series 25W Single Output LED Power Supply [pdf] Owner's Manual PLD-25 Series 25W Single Output LED Power Supply, PLD-25 Series, 25W Single Output LED Power Supply, Single Output LED Power Supply, Output LED Power Supply, LED Power Supply , Power Supply

References

- Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer
- Global Trade Item Number (GTIN)-MEAN WELL Switching Power Supply Manufacturer
- User Manual

Manuals+, Privacy Policy

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