



LDP25 SERIES

25 WATT OUTPUT

LED POWER SUPPLY



Features

- * 25W Single outputs
- * Universal AC input range 90-305Vac
- * Constant Current Design
- * Active PFC > 0.9
- * Low inrush current < 5A
- * No load power consumption 1W
- * Low profile with 20mm height and narrow 30mm width
- * Low frequency flicker design
- * Continuous short circuit protection
- * Over temperature protection
- * IP 67 Rated
- * Fully isolated plastic case
- * Dimming function: PWM / 1~10VDC / Potentiometer



| MODEL | Output Rated Voltage | Constant Current Region | Ripple and Noise(V p-p max.) ^{Note1} | Output Rated Current | No Load Output Voltage (max.) | Output Rated Power | %EFF. (typ.) |
|------------------|----------------------|-------------------------|---|----------------------|-------------------------------|--------------------|--------------|
| LDP25S240-C110BR | 24V | 9-24V | 0.24V | 1100mA | 29V | 26.40W | 86% |
| LDP25S240-C110B | 24V | 16-24V | 2.0V | | | | 88% |
| LDP25S240-C105BR | 24V | 9-24V | 0.24V | 1050mA | 29V | 25.20W | 85% |
| LDP25S240-C105B | 24V | 16-24V | 2.0V | | | | 87% |
| LDP25S240-C070BR | 24V | 9-24V | 0.24V | 700mA | 29V | 16.80W | 84% |
| LDP25S240-C070B | 24V | 16-24V | 2.0V | | | | 86% |
| LDP25S360-C070BR | 36V | 9-36V | 0.36V | 700mA | 43V | 25.20W | 86% |
| LDP25S360-C070B | 36V | 24-36V | 2.7V | | | | 88% |
| LDP25S480-C053BR | 48V | 9-48V | 0.48V | 530mA | 56V | 25.44W | 86% |
| LDP25S480-C053B | 48V | 32-48V | 4.8V | | | | 88% |
| LDP25S480-C035BR | 48V | 9-48V | 0.48V | 350mA | 56V | 16.80W | 84% |
| LDP25S480-C035B | 48V | 32-48V | 4.8V | | | | 86% |

Note: Ripple and Noise are measured at 20MHz bandwidth with a 0.1uF ceramic capacitor and 10uF aluminum capacitor.

All specifications are Typical at nominal line , full load and 25°C unless otherwise noted

Order Information:

| Series | Output(W) | IP Code | Output Voltage | Dimming Function | Rated Output Current | Input Voltage | Ripple Noisie | |
|--------|-----------|--------------------------|----------------|----------------------------------|----------------------|-----------------|--|--|
| LDP | 25 | X | XXX | X | XXX | B | X | |
| | | S : Single O/P with IP64 | 240 : 24V | C : No dimming P : PWM/1-10V, | 24V | B : 100-277 Vac | R : 1% output ripple and noise or Blank : 10% output ripple and noise | |
| | | | 360 : 36V | | 36V | | | 070: 700mA |
| | | | 480 : 48V | | 48V | | | 053: 530mA 035: 350mA |
| | | A : Single O/P with IP67 | 240 : 24V | | 24V | | | 110: 1100mA 105: 1050mA 070: 700mA |
| | | | 360 : 36V | | 36V | | | 070: 700mA |
| | | | 480 : 48V | | 48V | | | 053: 530mA 035: 350mA |

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage 90~305Vac
 Frequency 47 to 63Hz
 Power Factor.....115Vac/230Vac.....PF≥0.9 at 75%~100%Load
277Vac.....PF≥0.9 at 100% Load
 Inrush Current.....<5A After 100µS @240Vac, Cold Start @25°C
 Leakage Current0.5mA max.
 No load Consumption.....1W typ.

OUTPUT SPECIFICATIONS:

Maximum Output Voltage..... See Table
 Constant Current Accuracy...(note1).....±5%max.
 Current Line Regulation(note 2)..... ±5%max.
 Current Load Regulation.....(note 3)..... ±5%max.
 Start up time.....0.5 second max.
 Over Voltage Protection.....TVS Clamp
 Short Circuit Protection..... Hiccup Mode, Auto Recovery

GENERAL SPECIFICATIONS:

Efficiency.....See Table
 Temperature±0.05%/°C (0~50°C)
 Isolation voltage, Input to output.....3.75KVac
 Isolation resistance, Input to output.....10⁸Ω min.
 Operating Ambient Temperature-40°C~70°C(see derating curve)
 Cooling.....natural
 Storage Temperature..... -40 ~ 85°C
 Operating Humidity.....20%~95%RH non-condensing.
 Operating Altitude.....Sea Level to 3000m
 MTBF,MIL-HDBK-217F(25°C Ta) 200K hrs.
 Dimensions,.....5.511x1.181x0.787Inches (140.00x30.00x20.00mm)
 Weight.....100g

LDP25 Series Derating Curve



SAFETY AND EMISSIONS:

SafetyUL8750, IEC/EN61347-1
 IEC/EN61347-2-13,
 EMI.....FCC Part 18/EN55015 Class B
 EMS.....EN61547,EN61000-4-2,3,4,5,6
 EN61000-3-2 Harmonic Class C,EN61000-3-3

NOTE:

1. Current accuracy is set at nominal input voltage and full load.
2. Line regulation is measured from High Line to Low Line with full load.
3. Load regulation is measured minimum to maximum of the constant current region
4. Nominal Input Voltage at 230Vac
5. The input/output wires accessibility shall be evaluated during final system assembly.

All specifications are Typical at nominal line , full load and 25°C unless otherwise noted

Mechanical Specification

Standard Cable for LDP25Sxxx-PxxxBR, LDP25Axxx-PxxxBR

All Dimensions are in inches(mm)
 Tolerance: Inches: X.XXX±0.02
 Millimeters: X.XX±0.5
 UNIT : inches(mm)



| WIRE CONNECTION | | |
|-----------------|------------|-------------|
| COLOR | NO DIMMING | PWM DIMMING |
| BLUE | (N.A.) | D+ |
| WHITE | (N.A.) | D- |
| RED | +VO | +VO |
| BLACK | -VO | -VO |

Standard Cable for LDP25Sxxx-CxxxBx, LDP25Axxx-CxxxBx

All Dimensions are in inches(mm)
 Tolerance: Inches: X.XXX±0.02
 Millimeters: X.XX±0.5
 UNIT : inches(mm)



All specifications are Typical at nominal line , full load and 25°C unless otherwise noted