



# LDP25 SERIES

## 25 WATT OUTPUT

### LED POWER SUPPLY



## Features

- \* High Universal AC Input Range 90-305Vac
- \* High Active PFC, > 0.9
- \* Low Inrush Current <5A
- \* Low Profile for Easy Installation, 20mm Height, 30mm Narrow Width
- \* Low Flicker for Lighting
- \* Output Constant Current Design
- \* Continuous Short Circuit, OVP Protection
- \* Suitable for LED Lighting and Moving Sign Applications
- \* Fully Isolated Plastic Case
- \* Optional IP67
- \* Optional Dimming Function, need the signal from dimming controller with PWM/1-10Vdc (please confirm the controller type when ordering)



MODEL	Output Rated Voltage	Constant Current Region	Ripple and Noise(V p-p max.) <sup>Note1</sup>	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%
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%

Note1: Ripple and Noise are measured at 20MHz bandwidth with a 0.1uF ceramic capacitor and 10uF aluminum capacitor.

### Order Information:

LDP	25	X	240	-	X	X	X	B	X	
↓	↓	↓ S : Single O/P A : Single O/P with IP67	↓ 240 : 24V 360 : 36V 480 : 48V		↓ C : No dimming P : with PWM dimming 1-10V/ Potentiometer			↓ 110: 1100mA 070: 700mA 053: 530mA	↓ 100-277 Vac	↓ R : 1% output ripple and noise or Blank : 10% output ripple and noise
LDP Series	Output Power	ID Code	Output Voltage		ID Code	Output Current (set when ordering)		Ac Input Voltage	ID Code	

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

## Specifications

### INPUT SPECIFICATIONS:

AC Input Voltage ..... 90~305Vac  
 Frequency ..... 47 to 63Hz  
 Power Factor.....115Vac/230Vac.....PF $\geq$ 0.9 at 75%~100%Load  
 .....277Vac.....PF $\geq$ 0.9 at 100% Load  
 Inrush Current.....<5A After 100 $\mu$ S @240Vac, Cold Start @25 $^{\circ}$ C  
 Leakage Current .....0.5mA max.

### OUTPUT SPECIFICATIONS:

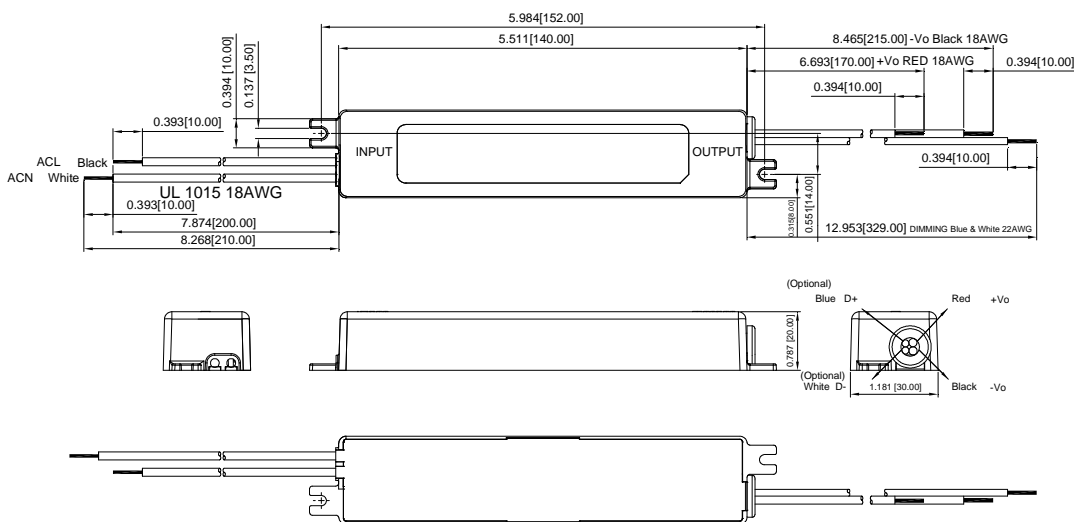
Maximum Output Voltage..... See Table  
 Constant Current Accuracy...(note1)..... $\pm$ 5%max.  
 Current Line Regulation .....(note 2)..... $\pm$ 5%max.  
 Current Load Regulation.....(note 3)..... $\pm$ 5%max.  
 Start up time.....1 second max.  
 Over Voltage Protection.....TVS Clamp  
 Short Circuit Protection..... Hiccup Mode, Auto Recovery

### GENERAL SPECIFICATIONS:

Efficiency.....See Table  
 Temperature ..... $\pm$ 0.05%/ $^{\circ}$ C (0~50 $^{\circ}$ C)  
 Isolation voltage, Input to output.....3.75KVac  
 Isolation resistance, Input to output.....10 $^8$  $\Omega$  min.  
 Operating Ambient Temperature .....-40 $^{\circ}$ C~70 $^{\circ}$ C(see derating curve)  
 Cooling.....natural  
 Storage Temperature..... -40 ~ 85 $^{\circ}$ C  
 Operating Humidity.....20%~95%RH non-condensing.  
 Operating Altitude.....Sea Level to 3000m  
 MTBF,MIL-HDBK-217F(25 $^{\circ}$ C Ta) ..... 200K hrs.  
 Dimensions,.....5.511x1.181x0.787Inches (140.00x30.00x20.00mm)  
 Weight.....100g

### Mechanical Specification

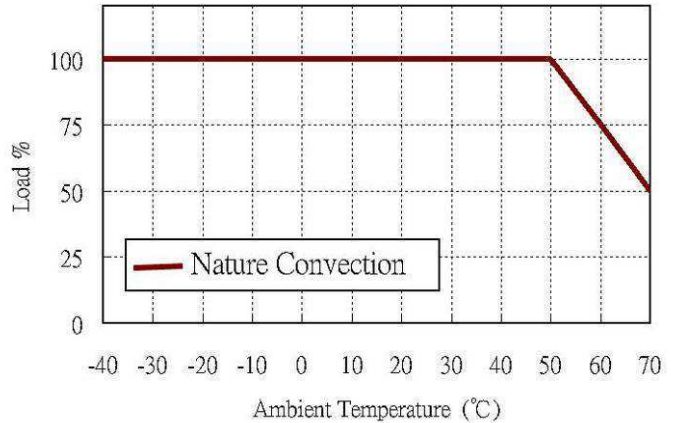
All Dimensions are in inches(mm)  
 Tolerance: Inches: X.XXX $\pm$ 0.02  
 Millimeters: X.XX $\pm$ 0.5  
 UNIT : inches(mm)



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

*All specifications are Typical at nominal line , full load and 25 $^{\circ}$ C unless otherwise noted*

## LDP25 Series Derating Curve



### SAFETY AND EMISSIONS:

Safety .....UL8750, 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:

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