



LDP60 SERIES

60WATT 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, 25.2mm Height, 40mm Narrow width
- * Low Flicker for Lighting
- * Constant Output Current Design
- * Continuous Short Circuit Protection
- * Over Temperature Protection
- * Suitable for LED Lighting and Moving Sign Applications
- * Fully Isolated Plastic Case
- * Dual 30W outputs, or Single 60W output
- * Optional Dimming Function; need the signal from dimming controller with DALI/ PWM/ 1~10Vdc/ Potentiometer (please confirm the controller type when ordering)



MODEL	Output Rated Voltage	Constant Current Region	Ripple and Noise (Vp-p max.) ^{Note1}	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF (typ.)
LDP60A240-C250BR	24V	9-24Vdc	0.24V	2500mA	29Vdc	60W	85%
LDP60A240-C250B	24V	16-24Vdc	2.2V				88%
LDP60A360-C166BR	36V	9-36Vdc	0.36V	1666mA	43Vdc	60W	85%
LDP60A360-C166B	36V	24-36Vdc	2.7V				89%
LDP60A480-C125BR	48V	9-48Vdc	0.48V	1250mA	56Vdc	60W	86%
LDP60A480-C125B	48V	32-48Vdc	4.8V				90%
LDP60B240-C125BR	24V	9-24Vdc	0.24V	V1 1250mA V2 1250mA	29Vdc 29Vdc	30W 30W	85%
LDP60B360-C083BR	36V	9-36Vdc	0.36V	V1 833mA V2 833mA	43Vdc 43Vdc	30W 30W	85%
LDP60B480-C062BR	48V	9-48Vdc	0.48V	V1 625mA V2 625mA	56Vdc 56Vdc	30W 30W	87%

Note 1: Ripple and Noise are measured at 20MHz bandwidth with a 0.1uF ceramic capacitor and 10uF aluminum capacitor.

Order Information:

LDP	60	X	X	-	X	X	X	X	B	X
↓	↓	A : Single O/P with IP67 B : Dual O/P with IP67	240 : 24V 360 : 36V 480 : 48V		C : No dimming D : with DALI dimming P : with PWM dimming 1-10V/ Potentiometer	062 : 625mA 083 : 833mA 125 : 1250mA 166 : 1666mA 250 : 2500mA			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 50/60Hz.
 Power Factor.....115Vac/230Vac.....PF \geq 0.9 at 75%~100%Load.
 Inrush Current <5A after 100us @240Vac, Cold Start @25°C.
 Leakage Current 0.75mA max.

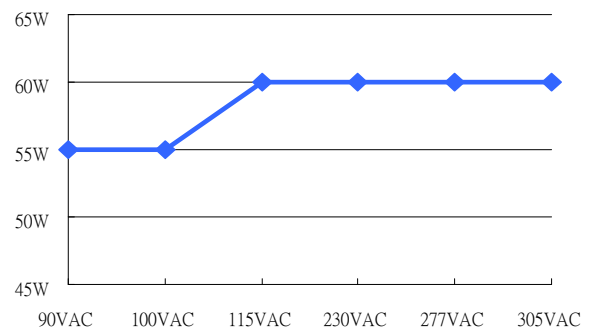
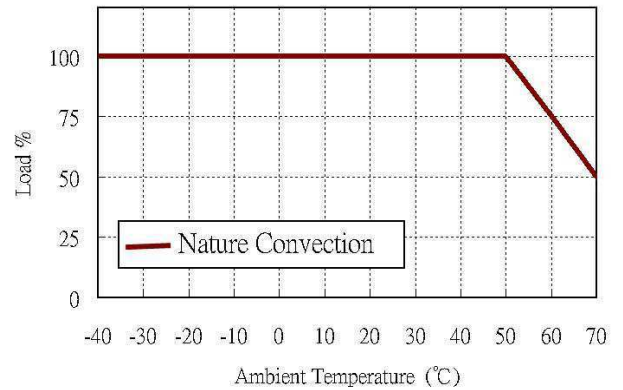
OUTPUT SPECIFICATIONS:

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
 Over Temperature Protection.....105°C typ.

GENERAL SPECIFICATIONS:

Efficiency.....See Table.
 Temperature coefficient..... \pm 0.05%/°C (0~50°C).
 Isolation voltage, Input to output.....3.75KVac.
 Isolation resistance, Input to output.....10⁸ Ω min.
 Operating Ambient Temperature-40 ~ 70°C (see derating curve).
 Cooling.....natural convection.
 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.....10.315x1.575x0.992inch (262.00x40.00x25.20mm).
 Weight.....530g.

LDP60 Series Derating Curve



SAFETY AND EMISSIONS:

Safety.....UL8750, IEC/EN61347-1
 IEC/EN61347-2-13
 EMI.....FCC part 15/EN55015 Class B
 EMS.....EN61547, EN61000-4-2,3,4,5,6,8,11
 EN61000-3-2 Harmonic Class C, EN61000-3-3

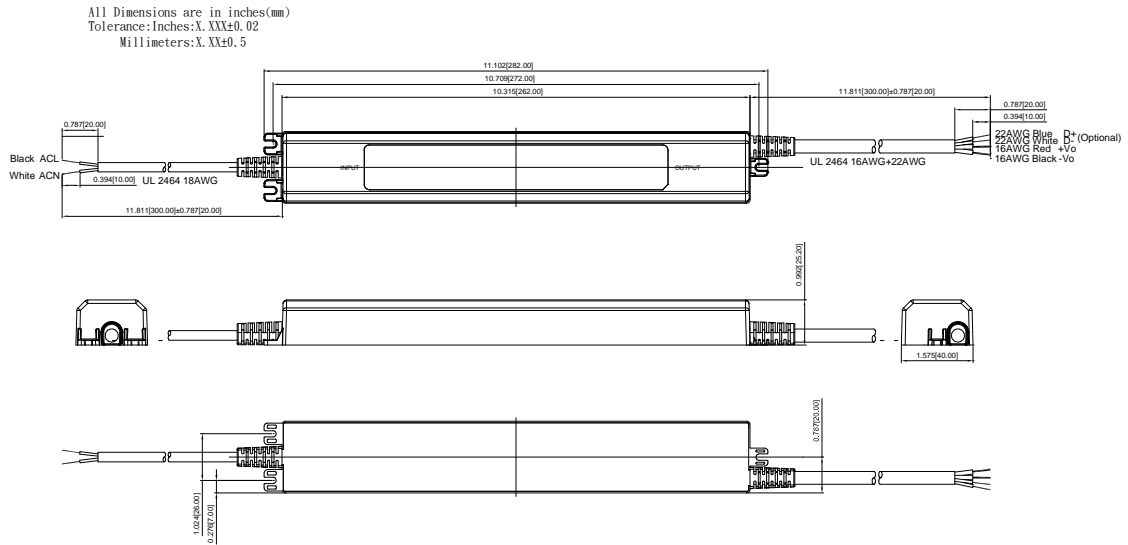
NOTE:

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

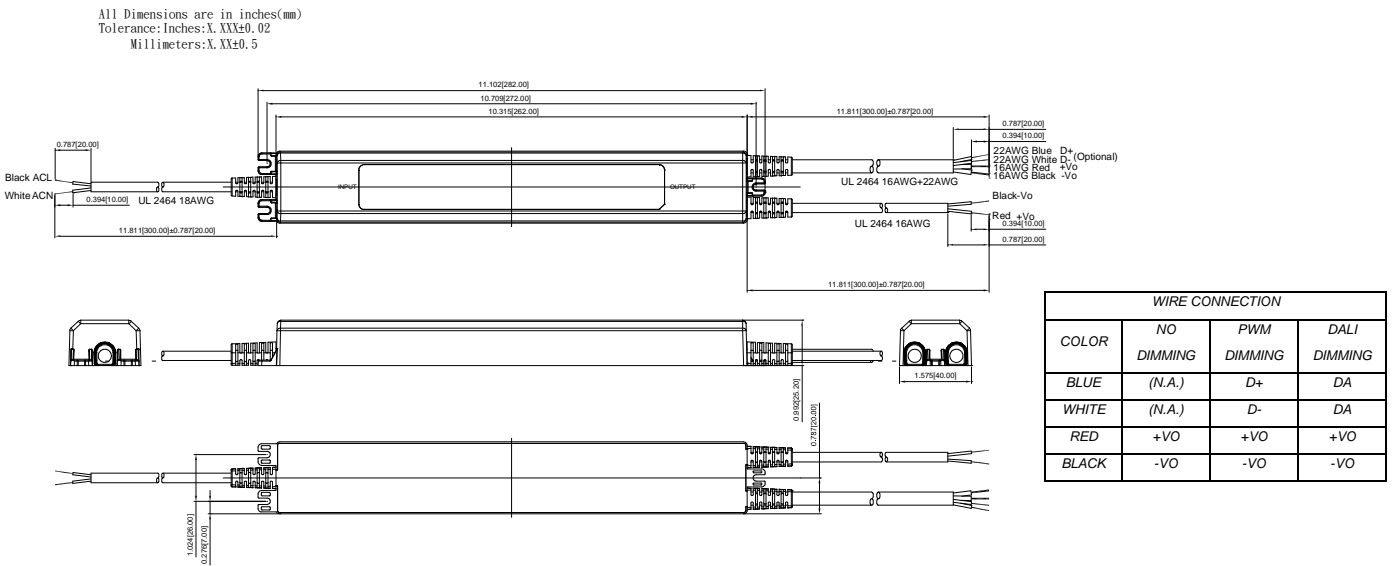
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Mechanical Specification

Single output



Dual Output



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