



LDP60 SERIES

60WATT OUTPUT

LED POWER SUPPLY



- * 60W Single / Dual outputs
- * Universal AC input range 90~305Vac
- * Constant Current Design
- * Active PFC > 0.9
- * Low inrush current < 5A
- * Standby Power Consumption <0.5W
- * Low Profile with 25.2mm Height and Narrow 40mm Width
- * Low Frequency Flicker Design
- * Continuous Short Circuit Protection
- * Over Temperature Protection
- * IP 67 Rated
- * Fully Isolated Plastic Case
- * Dimming Function: DALI/PWM/1~10VDC/Potentiometer



MODEL	Output Rated Voltage	Constant Current Region	Ripple and Noise(Vp-p max)	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF (tp)
LDP60A240-C250BR	24V	9-24Vdc	0.24V	2500mA	29Vdc	60.0W	85%
LDP60A240-C250B	24V	16-24Vdc	2.2V				88%
LDP60A240-C210BR	24V	9-24Vdc	0.24V	2100mA	29Vdc	50.4W	84%
LDP60A240-C210B	24V	16-24Vdc	2.2V				87%
LDP60A240-C175BR	24V	9-24Vdc	0.24V	1750mA	29Vdc	42.0W	84%
LDP60A240-C175B	24V	16-24Vdc	2.2V				86%
LDP60A360-C166BR	36V	9-36Vdc	0.36V	1666mA	43Vdc	60.0W	85%
LDP60A360-C166B	36V	24-36Vdc	2.7V				89%
LDP60A360-C140BR	36V	9-36Vdc	0.36V	1400mA	43Vdc	50.5W	84%
LDP60A360-C140B	36V	24-36Vdc	2.7V				88%
LDP60A480-C125BR	48V	9-48Vdc	0.48V	1250mA	56Vdc	60.0W	86%
LDP60A480-C125B	48V	32-48Vdc	4.8V				90%
LDP60A480-C105BR	48V	9-48Vdc	0.48V	1050mA	56Vdc	50.4W	85%
LDP60A480-C105B	48V	32-48Vdc	4.8V				89%
LDP60B240-C125BR	24V	9-24Vdc	0.24V	V1 1250mA V2 1250mA	29Vdc 29Vdc	30.0W 30.0W	85%
LDP60B240-C105BR	24V	9-24Vdc	0.24V	V1 1050mA V2 1050mA	29Vdc 29Vdc	25.2W 25.2W	84%
LDP60B360-C083BR	36V	9-36Vdc	0.36V	V1 833mA V2 833mA	43Vdc 43Vdc	30W 30W	85%
LDP60B360-C070BR	36V	9-36Vdc	0.36V	V1 700mA V2 700mA	43Vdc 43Vdc	25.2W 25.2W	84%
LDP60B480-C062BR	48V	9-48Vdc	0.48V	V1 625mA V2 625mA	56Vdc 56Vdc	30W 30W	87%

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

Order Information:

Series	Output(W)	O/P: Single/Dual	Output Voltage	Dimming Function	Rated Output Current		Input Voltage	Ripple Noise
LDP	60	X	XXX	X	XXX		B	X
		A : Single O/P with IP67	240 : 24V	C : No dimming D : DALI dimming P : PWM 1-10V, Potentiometer	24V	250: 2500mA 210: 2100mA 175: 1750mA	B : 100-277 Vac	R : 1% output ripple and noise or Blank : 10% output ripple and noise
			360 : 36V		36V	166: 1666mA 140: 1400mA		
			480 : 48V		48V	125: 1250mA 105: 1050mA		
		B : Dual O/P with IP67	240 : 24V		24V	125: 1250mA 105: 1050mA		
			360 : 36V		36V	082: 833mA 070: 700mA		
			480 : 48V		48V	062: 625mA		

Specifications**INPUT SPECIFICATIONS:**

AC Input Voltage 90~305Vac
Frequency 50/60Hz
Power Factor PF $\geq$ 0.9 @ 115Vac/230Vac, 75%~100% Load
Inrush Current <5A after 100us @240Vac, Cold Start @25°C Ta Cold Start
Leakage Current 0.75mA max.
Standby Power Consumption <0.5W (No Dimming)
Input Current (Full Load) 0.69A/0.32A typ. @115Vac/230Vac

OUTPUT SPECIFICATIONS:

Maximum Output Voltage See Table.
Constant Current Accuracy (note1) $\pm 5\%$ max.
Current Line Regulation (note2) $\pm 5\%$ max.
Current Load Regulation (note3) $\pm 5\%$ max.
Over Voltage Protection TVS Clamp
Short Circuit Protection Hiccup Mode, Auto Recovery
Over Temperature Protection 105°C typ.

GENERAL SPECIFICATIONS:

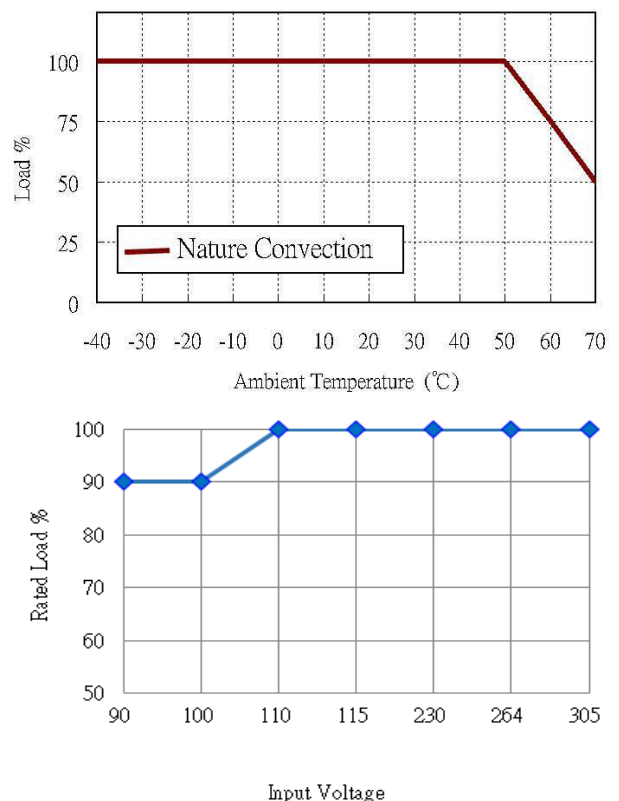
Efficiency See Table.
Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$ (0~50°C)
Isolation Voltage, Input to Output 3.75KVac.
Isolation Resistance, Input to Output 10⁹Ω min.
Operating Ambient Temperature -40 ~ 70°C (See Derating Curve).
Cooling Natural Convection.
Storage Temperature -40 ~ 85°C.
Operating Humidity 20%~95% RH Non-Condensing.
Operating Altitude Sea Level to 3000m
MTBF, MIL-HDBK-217F (25°C Ta) 200Khrs.

MECHANICAL CHARACTERISTICS:

Dimensions 10.315x1.575x0.992 Inches (262.00x40.00x25.20mm).
Weight 530g.

SAFETY AND EMISSIONS:

Safety UL8750, IEC61347-1, IEC61347-2-13
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

LDP60 Series Derating Curve**NOTE:**

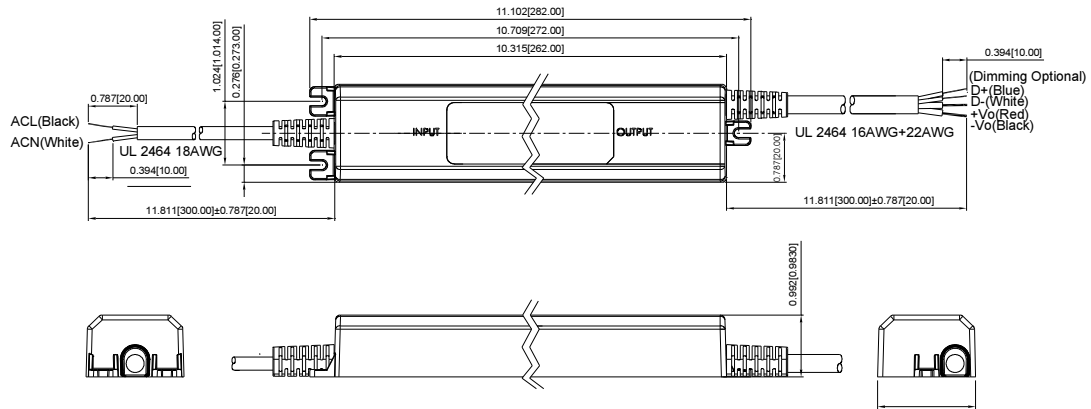
- Current accuracy is set at nominal input voltage and full load.
- Current line regulation is measured from high line to low line with full load.
- Current Load regulation is measured minimum to maximum of the constant current region.
- All specifications are typical at 230Vac, vo max., full load and 25°C unless other noted.
- 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

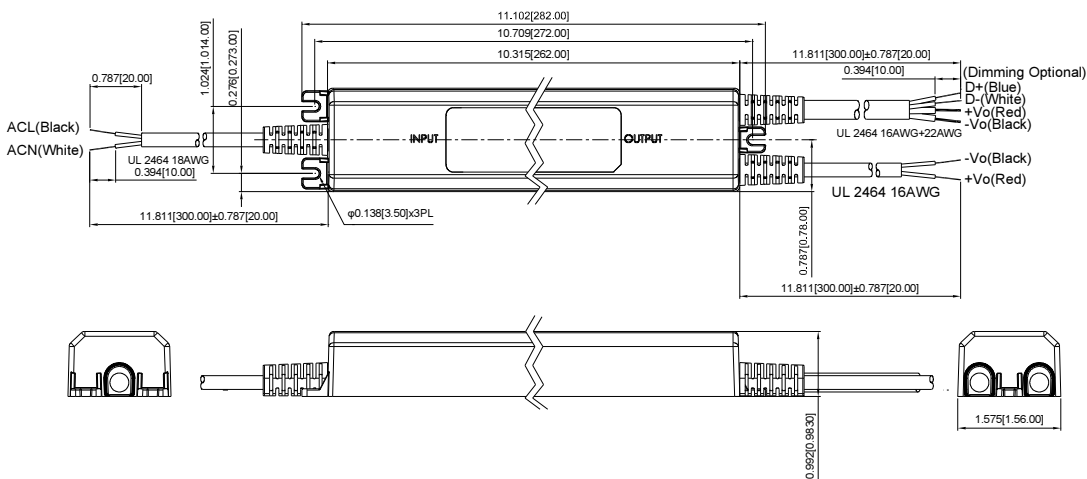
Single output

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



Dual Output

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	DALI DIMMING
BLUE	(N.A.)	D+	DA
WHITE	(N.A.)	D-	DA
RED	+VO	+VO	+VO
BLACK	-VO	-VO	-VO

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

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[LDP60A360-C083BR](#)