LDP60 SERIES
60WATT OUTPUT
LED POWER SUPPLY

E354350

Features

* 60W Single / Dual outputs
* Universal AC input range 90-305Vac
* Constant Current Design
* Active PFC > 0.9
* Low inrush current < 5A
* 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.)Note1	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF (typ.)
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%

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)	O/P: Single/Dual	Output Voltage	Dimming Function	Rated Output Current		Input Voltage	Ripple Nosie
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.....115Vac/230Vac.....PF≧0.9 at 75%~100%Load.
Inrush Current ..... <5A after 100us @240Vac, Cold Start @25℃.
Leakage Current ..... 0.75mA max.
No load Consumption.....2W typ.(Note 1)

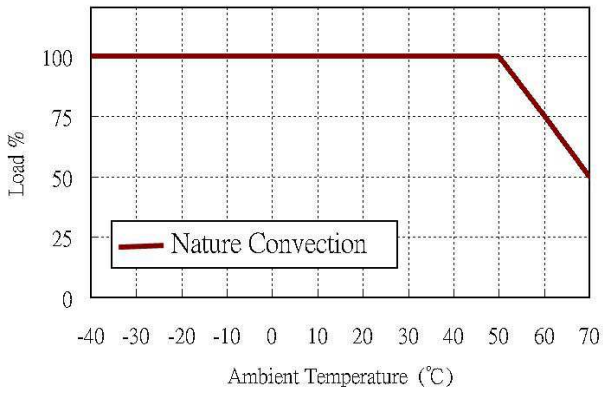
OUTPUT SPECIFICATIONS:

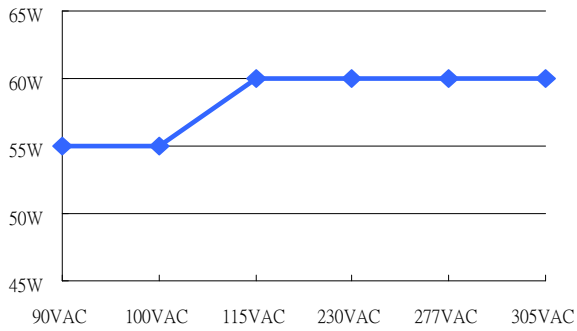
Maximum Output Voltage..... See Table.
Constant Current Accuracy...(note 2).....±5%max.
Current Line Regulation .....(note 3)..... ±5%max.
Current Load Regulation .....(note 4)..... ±5%max.
Start up time..... 0.5 second max.
Over Voltage Protection.....TVS Clamp.
Short Circuit Protection..... Hiccup Mode, Auto Recovery
Over Temperature Protection.....105℃ typ.

GENERAL SPECIFICATIONS:

Efficiency.....See Table.
Temperature coefficient.....±0.05%/℃(0~50℃).
Isolation voltage, Input to output.....3.75KVac.
Isolation resistance, Input to output.....$10^8\Omega$ min.
Operating Ambient Temperature .....-40 ~ 70℃(see derating curve).
Cooling.....natural convection.
Storage Temperature..... -40 ~ 85℃.
Operating Humidity.....20%~95%RH non-condensing.
Operating Altitude.....Sea Level to 3000m
MTBF,MIL-HDBK-217F (25℃ 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

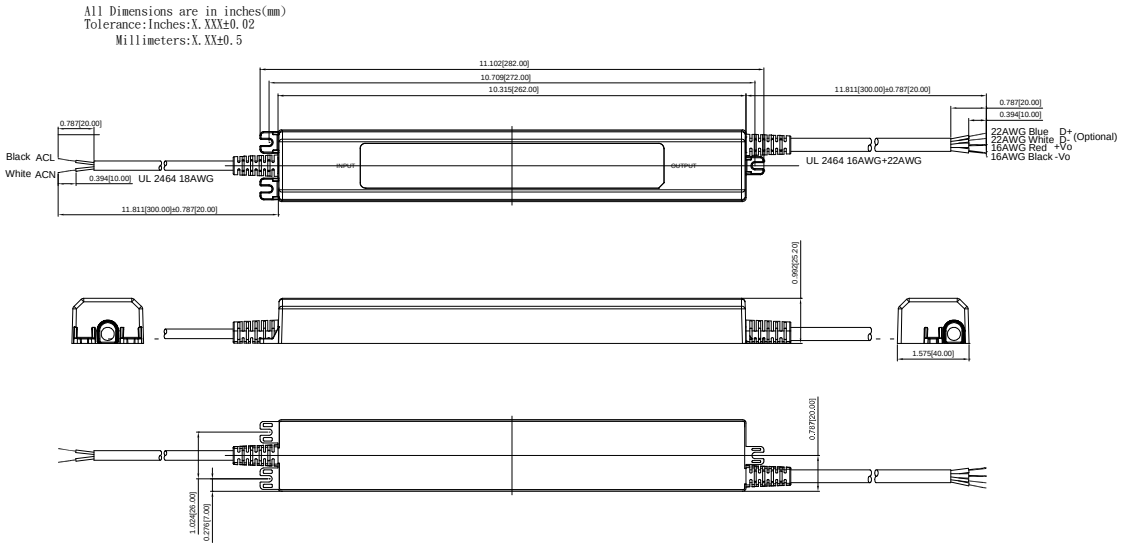
NOTE:

1.No load power consumption 1W will be introduced in Sep. 2014.
2. Current accuracy is set at nominal input voltage and full load.
3. Line regulation is measured from High Line to Low Line with full load.
4. Load regulation is measured minimum to maximum of the constant. current region
5. Nominal Input Voltage at 230Vac
6. The input/output wires accessibility shall be evaluated during final system assembly.

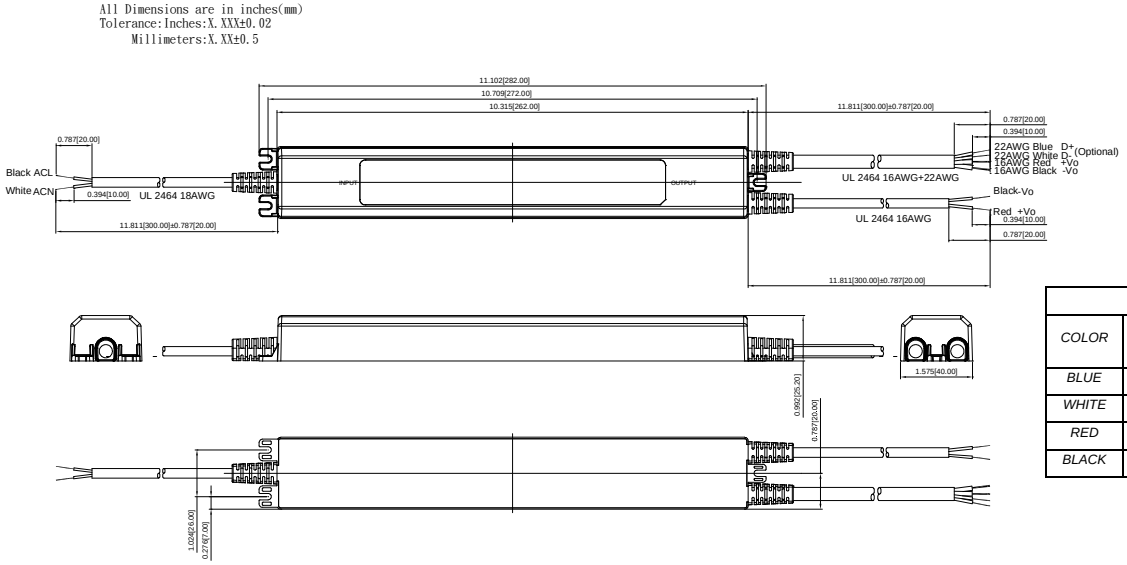
All specifications are Typical at nominal line , full load and 25°C unless otherwise noted

Mechanical Specification

Single output



Dual Output



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*

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