LDP40 SERIES
40 WATT OUTPUT
LED POWER SUPPLY

E354350

Features

* 40W Single 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(V p-p max.)Note1	Output Rated Current	No Load Output Voltage (max.)	Output Rated Power	%EFF. (typ.)
LDP40S240-C170BR	24V	9-24Vdc	0.24V	1700mA	29Vdc	40.80W	86%
LDP40S240-C170B	24V	16-24Vdc	2.0V				89%
LDP40S240-C140BR	24V	9-24Vdc	0.24V	1400mA	29Vdc	33.60W	85%
LDP40S240-C140B	24V	16-24Vdc	2.0V				88%
LDP40S360-C111BR	36V	9-36Vdc	0.36V	1110mA	43Vdc	40.00W	86%
LDP40S360-C111B	36V	24-36Vdc	2.7V				89%
LDP40S360-C105BR	36V	9-36Vdc	0.36V	1050mA	43Vdc	37.80W	85%
LDP40S360-C105B	36V	24-36Vdc	2.7V				88%
LDP40S480-C084BR	48V	9-48Vdc	0.48V	840mA	56Vdc	40.32W	88%
LDP40S480-C084B	48V	32-48Vdc	4.8V				90%
LDP40S480-C070BR	48V	9-48Vdc	0.48V	700mA	56Vdc	33.60W	86%
LDP40S480-C070B	48V	32-48Vdc	4.8V				88%

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 Nosie
LDP	40	X	XXX	X	XXX		B	X
		S：Single O/P with IP64	240：24V	C：No dimming D：DALI dimming P：PWM 1-10V, Potentiometer	24V	170: 1700mA 140: 1400mA	B：100-277 Vac	R：1% output ripple and noise or Blank：10% output ripple and noise
			360：36V		36V	111: 1110mA 105: 1050mA		
			480：48V		48V	084: 840mA 070: 700mA		
		A：Single O/P with IP67	240：24V		24V	170: 1700mA 140: 1400mA		
			360：36V		36V	111: 1110mA 105: 1050mA		
			480：48V		48V	084: 840mA 070: 700mA		

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)

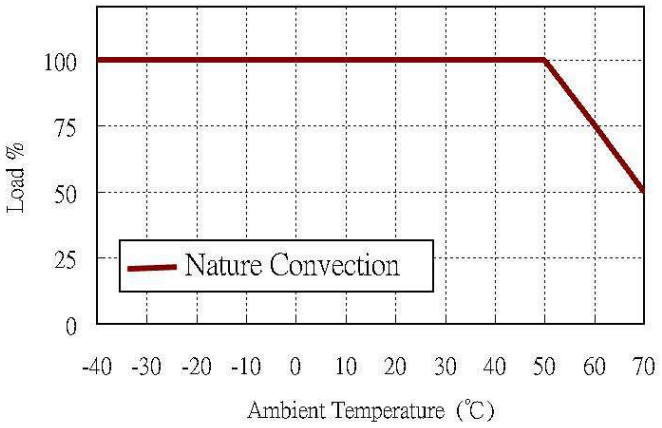
OUTPUT SPECIFICATIONS:

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.....6.614x1.575x0.992 inch (168.00x40.00x25.20mm)
Weight.....350g

LDP40 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,
EN61000-3-2 Harmonic Class C,EN61000-3-3

NOTE:

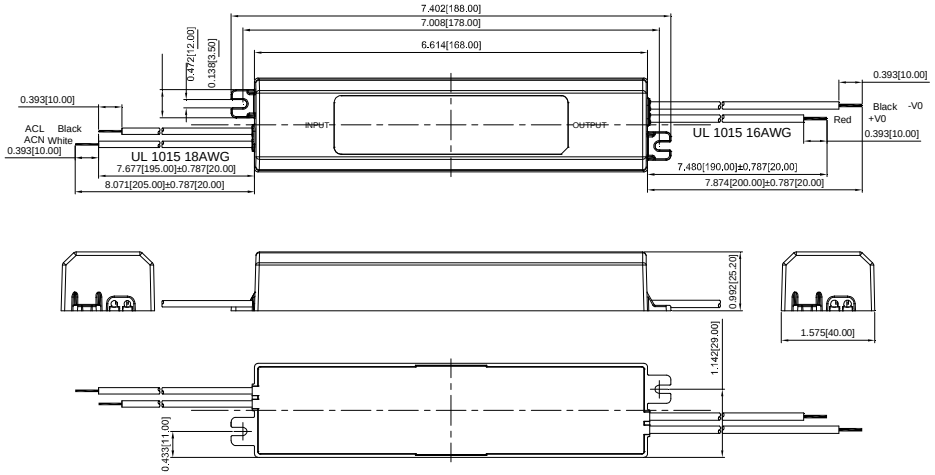
1.No load power consumption 1W will be introduced in Sep. 2014.
2. Current accuracy is set at nominal input voltage and full load.
3. Line regulation is measured from High Line to Low Line with full load.
4. Load regulation is measured minimum to maximum of the constant. current region
5. Nominal Input 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

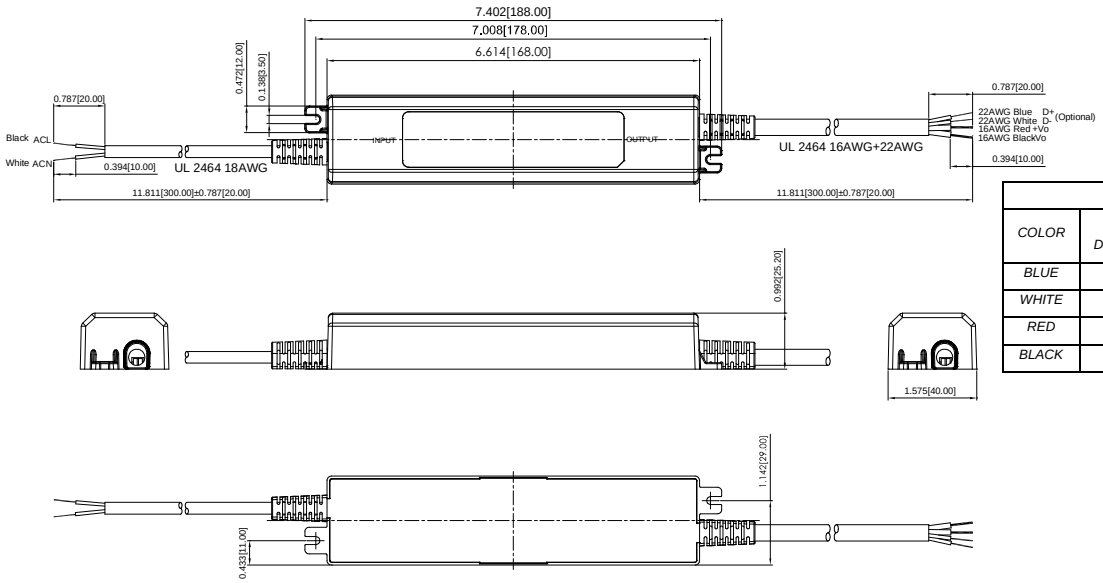
Standard Cable for LDP40Sxxx-CxxxBx

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



Standard Cable for LDP40Sxxx-DxxxBR,LDP40Sxxx-PxxxBR,LDP40Axxx-xxxxBR

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



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