# LDP40 SERIES

## 40 WATT OUTPUT LED POWER SUPPLY

E354350

IP67

## 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<br>D：DALI dimming<br>P：PWM 1-10V, Potentiometer | 24V | 170: 1700mA<br>140: 1400mA | B：100-277 Vac | R：1% output ripple and noise<br>or<br>Blank：10% output ripple and noise |
| | | | 360：36V | | 36V | 111: 1110mA<br>105: 1050mA | | |
| | | | 480：48V | | 48V | 084: 840mA<br>070: 700mA | | |
| | | A：Single O/P with IP67 | 240：24V | | 24V | 170: 1700mA<br>140: 1400mA | | |
| | | | 360：36V | | 36V | 111: 1110mA<br>105: 1050mA | | |
| | | | 480：48V | | 48V | 084: 840mA<br>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)

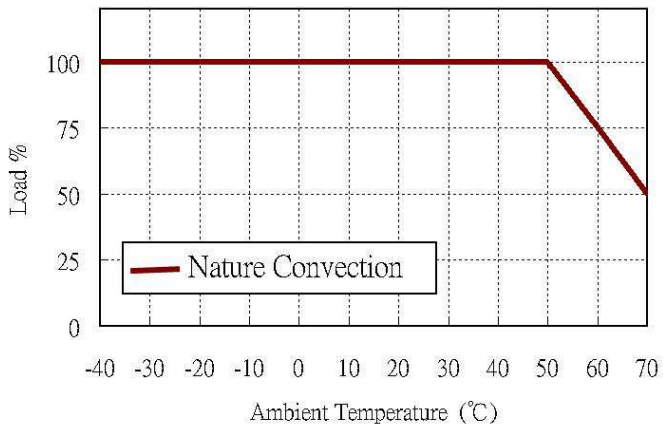
## OUTPUT SPECIFICATIONS:

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

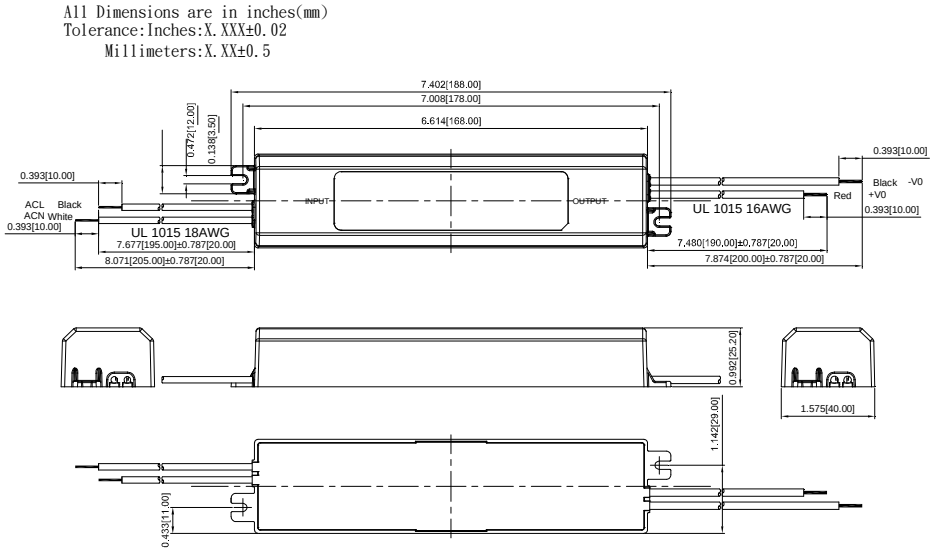
## NOTE:

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.

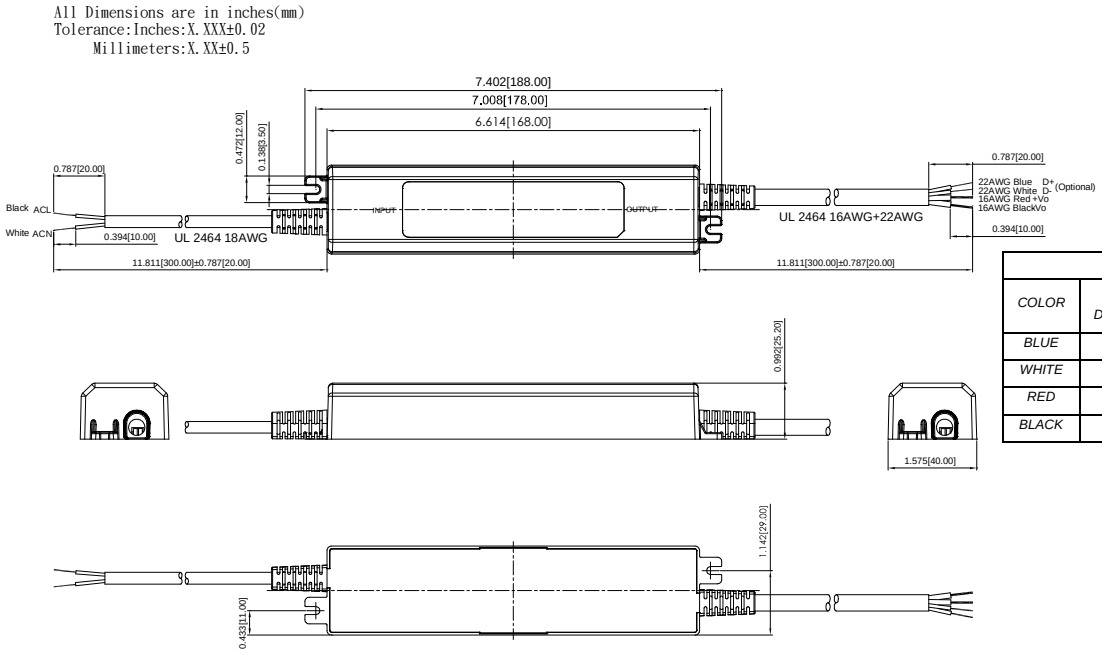
*All specifications are Typical at nominal line, full load and 25˚C unless otherwise noted*

## Mechanical Specification

### *Standard Cable for LDP40Sxxx-CxxxBx*




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




| 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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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

**Как с нами связаться**

**Телефон:** 8 (812) 309 58 32 (многоканальный)
**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.