



# LDP40 SERIES

## 40 WATT OUTPUT

### LED POWER SUPPLY



## 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.) <sup>Note1</sup> | 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 Noise   |
|--------|-----------|--------------------------|----------------|--|----------------------|-----------------|--|
| 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                  | B : 100-277 Vac | R : 1% output ripple and noise or<br>Blank : 10% output ripple and noise |
|        |           |                          | 360 : 36V      |  | 36V                  |                 |  |
|        |           |                          | 480 : 48V      |  | 48V                  |                 |  |
|        |           | A : Single O/P with IP67 | 240 : 24V      |  | 24V                  |                 |  |
|        |           |                          | 360 : 36V      |  | 36V                  |                 |  |
|        |           |                          | 480 : 48V      |  | 48V                  |                 |  |

**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°C  
 Leakage Current .....0.75mA max  
 No load Consumption.....2W typ(Note 1)

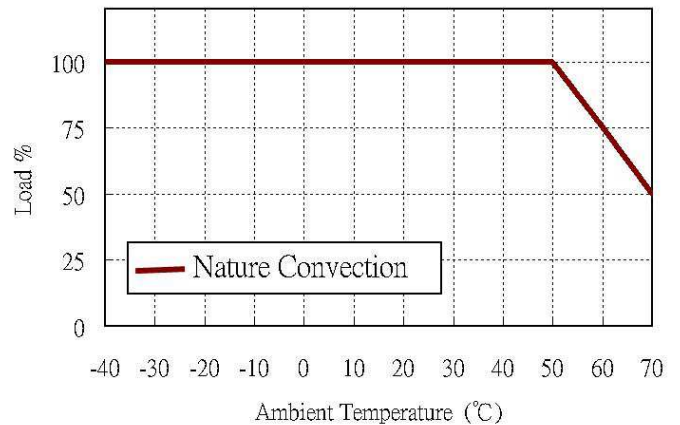
**OUTPUT SPECIFICATIONS:**

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°C typ.

**GENERAL SPECIFICATIONS:**

Efficiency.....See Table  
 Temperature Coefficient.....±0.05%/°C (0~50°C)  
 Isolation voltage, Input to output.....3.75KVac  
 Isolation resistance, Input to output.....10<sup>8</sup>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.....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:**

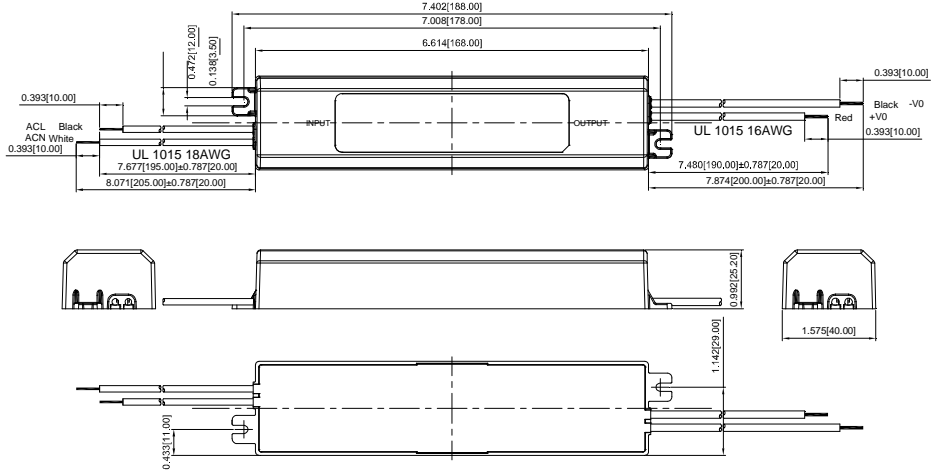
- 1.No load power consumption 1W will be introduced in Sep. 2014.
2. Current accuracy is set at nominal input voltage and full load.
3. Line regulation is measured from High Line to Low Line with full load.
4. Load regulation is measured minimum to maximum of the constant current region
5. Nominal Input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

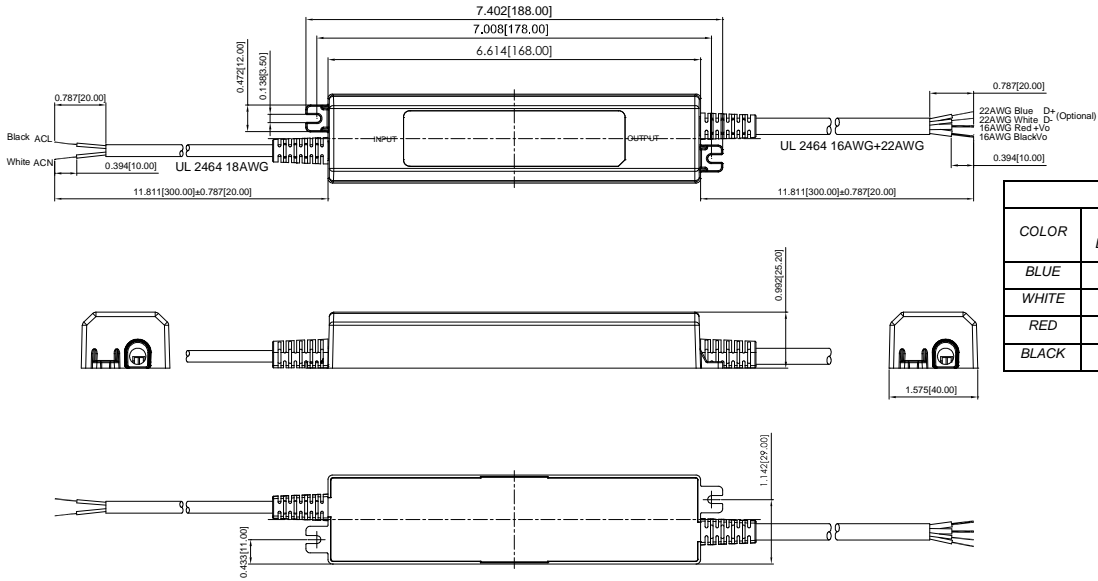
**Standard Cable for LDP40Sxxx-CxxxBx**

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

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Формирование склада под заказчика.
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- Тестирование поставляемой продукции.
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- Входной контроль качества.
- Наличие сертификата ISO.

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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