



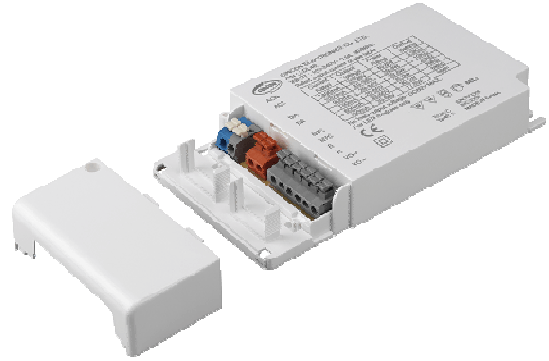
# LDL40

## 40 WATT SINGLE OUTPUT LED POWER SUPPLY



### Features

- \* Universal AC Input 90~264Vac
- \* Low AC Inrush Current < 5A
- \* Standby Power Consumption < 0.5W
- \* PF > 0.9
- \* Digital Dimming, 1~100%
- \* Adjustable Output Current Setting
- \* Continuous Short Circuit Protection
- \* Up to 2.5Φ Diameter Wire for Terminals of CN1(L/N)
- \* Up to 1.5Φ Diameter Wire for Other Terminals



MODEL	Input Voltage Range	Max. Output Current (CC region)	Min Output Voltage	Max Output Voltage	Max. Output Power	Resistance for I <sub>max</sub> Setting	No Load Output Voltage (max.)	Ripple % (* V out)	Eff. typ.
LDL40DU	90 ~264 Vac	1400mA max.	15V	29V	40.6W max	3.3K	40Vdc	1 %	86%
		1050mA max	20V	38V	39.9W max	10K	49Vdc		
		900mA max	20V	44V	39.6W max	22K	55Vdc		
		700mA max	20V	50V	35.0W max	39K	60Vdc		
		600mA max	20V	50V	30.0W max	68K			
		350mA max	20V	50V	17.5W max	150K~OPEN			

### Ordering Information (P/N Name Reference as Label Example Below):

Series	Model	Dimming Function	AC Input Range	Type
LDL	40	X	X	X
LDL	40	D: Digital + Current Setting	U:90~264Vac	Blank: Standard type B: Built-in type

## Specifications

### INPUT SPECIFICATIONS:

AC Input Voltage ..... 90~264Vac  
 Frequency ..... 50/60Hz  
 AC Inrush Current ..... <5A After 100uS @240Vac, 25°C Ta. Cold Start  
 Standby Power Consumption ..... <0.5W  
 Leakage Current ..... <0.75mA

### OUTPUT SPECIFICATIONS:

Constant Current Accuracy (note1) ..... ±5% max.  
 Current Line Regulation (note2) ..... ±5% ma.  
 Current Load Regulation (note3) ..... ±5% max  
 Over Voltage Protection ..... TVS Clamp  
 Short Circuit Protection ..... Hiccup Mode, Auto Recovery  
 Digital Dimming  
 Option with Current Setting Resistor Between Pin3 and Pin4 of CN3 ..... 1~100%  
 Digital Dimming Interface ..... Meets IEC62386 Part 102, 207 Ver.2

### GENERAL SPECIFICATIONS:

Efficiency ..... LDL40DU:86%@230Vac Full Load  
 Isolation Voltage, Input to Output ..... 3.75KVac  
 Isolation Resistance Input to Output ..... 10<sup>8</sup> Ω min.  
 Surge Voltage Between L-N ..... ±2kV

### SAFETY AND EMC:

Safety ..... EN61347-1, EN61347-2-13  
 EMI ..... EN55015 Class B  
 EMS ..... EN61000-4-2, 3, 4, 5, 6, 8,11  
 Harmonic Current ..... EN61000-3-2, 3

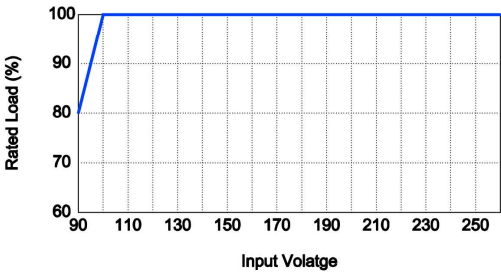
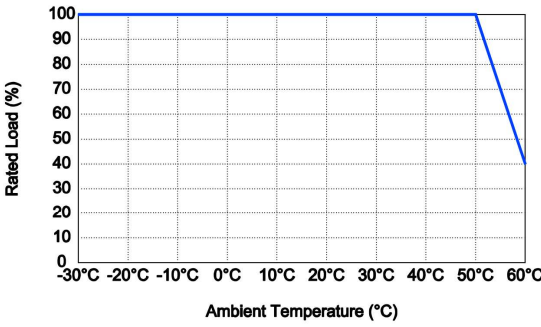
### MECHANICAL CHARACTERISTICS:

Dimensions ..... 5.906x3.150x0.913 Inches (150.0x80.0x23.2 mm)  
 Weight ..... 220g

### ENVIRONMENTAL CHARACTERISTICS:

Operating Ambient Temperature ..... -30°C~ 50°C (See Derating Curve)  
 Cooling.....Natural Convection  
 Storage Temperature, Humidity ..... -40 ~ 85°C, 20%~95% RH  
 Operating Altitude max. .... 3000 m Above Sea Level  
 Temperature Coefficient ..... ±0.05%/°C ( 0~50°C)

## LDL40 Derating Curve

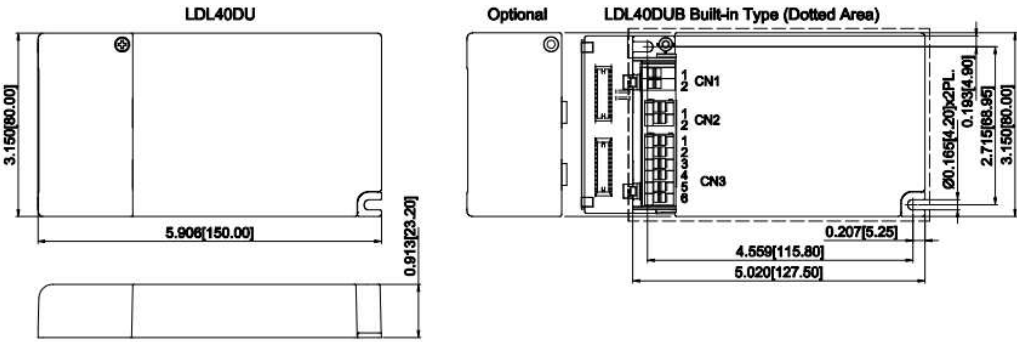


### NOTE:

1. Set at 230Vac nominal input voltage and full load.
2. Current line regulation is measured from high line to low line, full load.
3. Current load regulation is measured from min. output voltage to max. output voltage.
4. All specifications are typical at 230 Vac, Vo max., full load and 25°C Ta. unless other noted.

## Mechanical Specification

All Dimensions in Inches[mm]  
 Tolerance Inches:x.xxx±0.02  
 Millimeters:x.xxx±0.5



CN1:			CN2:		
Pin	Function	Terminal Color	Pin	Function	Terminal Color
1	ACN	Blue	1	DA	Orange
2	ACL	Gray	2	DA	Orange

CN3:					
PIN CONNECTION					
Pin	Function	Terminal Color	Pin	Function	Terminal Color
1	NTC	Gray	3	R	Gray
2	NTC	Gray	4	R	Gray
			5	Vo+	Gray
			6	Vo-	Gray

LDL40DUB Single Without Wire Box  
 LDL40DU with Wired Box  
 CN1 use the wire diameter with 0.75~2.5mm<sup>2</sup>  
 CN2 / CN3 use the wire diameter with 0.2~1.5mm<sup>2</sup>