



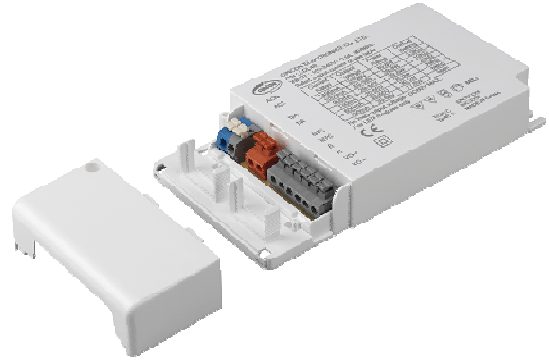
LDL40

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 _{max} 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 10⁸ 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

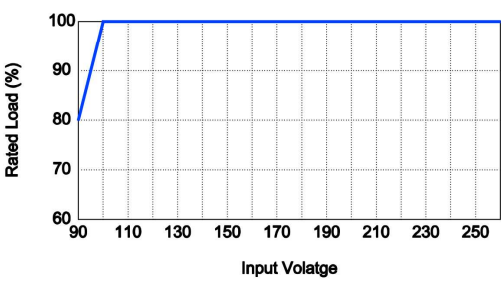
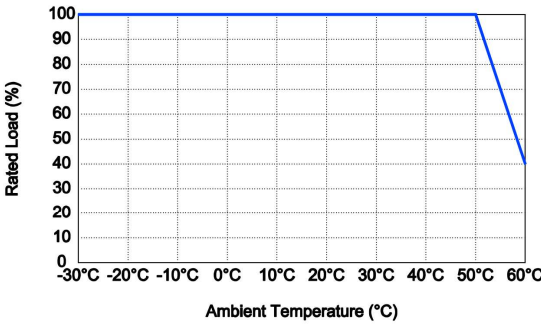
MECHANICAL CHARACTERISTICS:

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

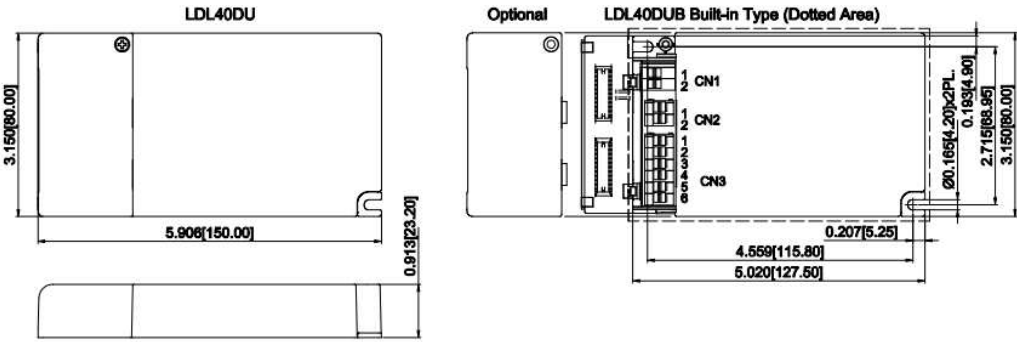


NOTE:

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 0.75~2.5mm²
 CN2 / CN3 use the wire diameter with 0.2~1.5mm²

Mouser Electronics

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