



## **Main Features:**

- Input Voltage: 277~480Vac
- Output Wattage: Constant Current (C.C.) at 96W with Adjustable Current Setting
- Programmable Method: Wiring with Bluetooth Programmer
- High Efficiency: Up to 89%
- Dimming Function: 0-10V with Dim to off (dto)
- Lightning Protection: Built-in [Line to line 1kV, line to ground 2kV]
- Reliability Protection: SCP, OTP
- Safety Regulation: Complies with UL8750 Class 2 & Class P
- Waterproof Rating: IP20
- Five Year Warranty under Normal Usage Conditions





# **SPECIFICATION**

Model No. <sup>(*)</sup>	Output Voltage	C.C. or C.P. Programmable	Programming	Dimming Control	Dim to off (dto)	Aux
	Range	Rated Output or Range	Method	Method		
LDD-www(D)vvv(P/F)ccccHH-(V/D)	(Vdc)	(mA) <sup>(i)</sup>			(V or %)	(Vdc)
LDDS096D040P2400HHV	10 - 54 700 - 2400 Analog/Wire 0-10V					12
(*) model name pattern:	(i) Pre-set Constant Current Value with dimming					
LDD-www(D)vvv(P/F)ccccHH-(V/D)	Auxiliaries Voltage: 12Vaux with 100mA					
LDD means, LED Driver with C.C.	Dim to Off (dto) with 0.5W Standby Power					
(D) means, 12V Aux	Case Tamp: Tc: 90° <b>C</b>					
(P/F) means, Wire/Wireless	SCP (Short Circuit Protection): when its load is being shorted, the driver will enter hiccup mode, and shall					
Programming method	be self-recover when the fault condition is clean.					
(V/D) means, Analog Voltage/Digital	OTP (Over Temperature Protection): Reduce the output current to about 50mA once Ta≧75±10°C; Recover					
DALI Dimming method	only If restart the input power at Ta≦50±10°C .					
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Input Spec. Condition Description		Min.	Normal	Max.	Units
Input Voltage Range	Universal Input	277		480	VAC
Input Frequency Range		47	50/60	63	Hz
Input Current	At 277 VAC/480 VAC input, full load output			0.42/0.24	А
Power Factor	At 277 VAC/480 VAC input, 25°C full load		>0.92		
Inrush Current	At 277 VAC input, 25°C cold start / At 480 VAC input, 25°C cold start			20	А
Leakage Current	@480Vac 60Hz			0.5	mA
Surge Protection	Differential and common mode, combination wave			1.0/2.0K	V



# LED Driver C.C. 96W with High Input Voltage Series (in Steel Case version)

Output Spec.	Condition Description	Min.	Normal	Max.	Units
Current Accuracy	At 25°C, @277Vac & 480Vac, full load		±5		%
Dianla Current	At 25°C, full load, measured at 20MHz bandwidth. The result			5	% lp-p (lo)
Ripple Current	differs according to different LED load characteristic.				
Overshoot/Undershoot	% of I out max & LED load, at 25°C, measured at 20MHz bandwidth			10	%
Furn-On Delay Measured at 277Vac/480Vac input and Full Load				0.5	S
Aux Output Voltage	Aux out current with 100mA up to 1.2W max	11	12	13	Vdc

General Spec.	Condition Description	Min.	Normal	Max.	Units
Efficiency	277Vac 480Vac measured at 25°C, full load		87 89		%
MTBF	at Tc = 25 $^\circ\!\!\mathrm{C}$ Full load and nominal input condition		≥500,000		Hours
Lifetime	at Tc < 85 $^\circ\!\!\!\mathrm{C}$ Full load and nominal input condition		≥50,000		Hours
Operating/Storage		-30/-40		55/85	°C
Temperature	10%RH~85%RH/5%RH~95%RH	-30/-40		20/00	C
Dimension	OL is the overall length with mounting plates	241.3/228 x 44.0 x 30.0			mm
(OL/L x W x H)	OL is the overall length with mounting plates	9.5/8.98 x 1.73 x 1.18			inch
Weight	Net weight without package	1.17/0.53		lb/kg	

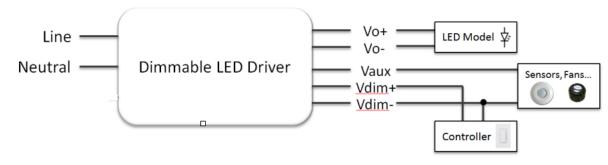
Safety & EMC Compliance	Category	Condition Description			
	UL8750	Light Emitting Diode (LED) Equipment for Use in Lighting Products, Class 2 Class P			
	Dielectric Strength (Hi-POT)	Dielectric Strength (Hi-POT) Primary to Secondary: 2500Vac /10mA max / 60 seconds (3 seconds for production)			
Safety Regulations	Insulation Resistance 50M ohm min. @primary to secondary				
	IEC 61000-3-3	Voltage fluctuations & flicker			
	FCC Part 15	Class A			
	IEC 61000-4-2	Electrostatic discharge (ESD): 8 kV air discharge, 4 kV contact discharge, criteria A			
EMS Standards	IEC 61000-4-4	Electrical fast transient (EFT)/ burst-EFT 2kV/5KHz			
	IEC 61000-4-5	Surge immunity test, differential and common mode, 1.0/2.0kV, combination wave			



### Dimming Curve

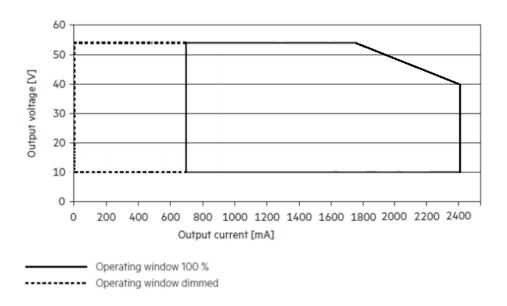
Parameter	Min.	Тур.	Max.
Vdim Sourcing Current	200uA	500uA	1mA
Vdim Allowed Input Voltage	-15 V		15 V
0-10V Dimming Range	0% (Vdim=1V)	Linear	100% (Vdim=9~10V)

### **Dimming Wire**



### Operating Window

Make sure that the LED driver is operated within the given window under all the operation conditions. Special attention needs to be paid at dimming as the forward voltage of the connected LED modules varies with the dimming level.





### ■ Mechanical Outline (Unit: mm)

Note: Dimensions in millimeters, where 25.4 mm = 1 inch

Tolerance: ±0.51 mm



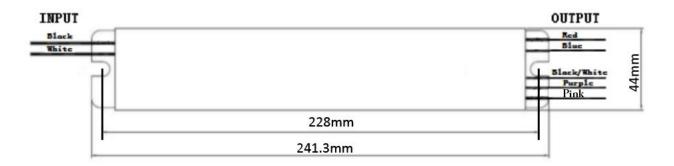


Figure 30, MR12YT

# ■ Wiring :(±20mm)

### Input wiring:

White & Black :  $300mm \pm 10mm$ , strip 10mm Tin Plated ,18AWG ,UL1015 .

#### Output wiring:

Red & Blue :  $300mm\pm10mm$  , strip 10mm Tin Plated ,18AWG ,UL1015 .

#### **Dimming wiring:**

Purple & Pink  $: 270 \text{mm} \pm 10 \text{mm}$ , strip 10 mm Tin Plated , 22 AWG ,UL1569 .

#### Vaux wiring:

Black / White : 270mm  $\pm$  10mm , strip 10mm Tin Plated , 22AWG ,UL1569

**Safety Note:** Please make sure the output cable does not connect to dimming cable or the cables of other drivers until 20 seconds after being tested because of the remained voltage in the output capacitor.



# Revision

Date Rev.		Description of Change				
Date	Nev.	Item Old		New		
Date	Rev.	Description of Change				
		ltem	Old	New		
10/28/2022	V1a	In Draft Release	/	/		