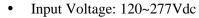


(in Steel Case version)

Main Features:



Output Wattage: Constant Current (C.C.) at 30W

with Adjustable Current Setting

Programmable Method: Wiring with Bluetooth Programmer

High Efficiency: Up to 86%

Dimming Function: 0-10V with Dim to off (dto)

Lightning Protection: Built-in [Line to line 2.5kV, line to ground 2.5kV

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. (*)	Output Voltage Range	C.C. or C.P. Programmable Rated Output or Range	Programming Method	Dimming Control Method	Dim to off (dto)	Aux
LDD-www(D)vvv(P/F)ccccHH-(V/D)	(Vdc)	(mA) ⁽ⁱ⁾			(V or %)	(Vdc)
LDDS030D028P1050-U-V	10 - 54	150 - 1050	Analog/Wire	0-10V	1V or 10%	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: To: 85°C					
(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 .					

Input Spec. Condition Description		Min.	Normal	Max.	Units
Input Voltage Range Universal Input		108	120/277	305	VAC
Input Frequency Range		47	50/60	63	Hz
Input Current	At 120 VAC/277 VAC input, full load output			0.33/0.15	Α
Power Factor	At 120 VAC/277 VAC input, 25°C full load		>0.95		
Inrush Current	At 120 VAC input, 25°C cold start / At 277 VAC input, 25°C cold start			20	Α
Leakage Current	@277Vac 60Hz			0.5	mA
Surge Protection	Differential and common mode, combination wave			2.5K	



(in Steel Case version)

Output Spec.	Condition Description	Min.	Normal	Max.	Units
Current Accuracy	At 25°C, @120Vac & 277Vac, full load		±5		%
Ripple Current	At 25°C, full load, measured at 20MHz bandwidth. The result differs according to different LED load characteristic.			5	% lp-p (lo)
Overshoot/Undershoot	% of I out max & LED load, at 25°C, measured at 20MHz bandwidth			10	%
Turn-On Delay	rn-On Delay Measured at 120Vac/277Vac 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		Normal	Max.	Units
Efficiency	120Vac 227Vac measured at 25°C, full load		85 86		%
MTBF	at Tc = 25 °C Full load and nominal input condition		≥500,000		Hours
Lifetime	at Tc < 80 °C Full load and nominal input condition		≥50,000		Hours
Operating/Storage	100/011- 050/011/50/011- 050/011	-30/-40		55/85	°C
Temperature	10%RH~85%RH/5%RH~95%RH				
Dimension	Ol is the everall length with mounting plates	152/128 x 33.0 x 28.0			mm
(OL/L x W x H)	OL is the overall length with mounting plates	6.0/5.0 x 1.30 x 1.1		inch	
Weight	Net weight without package	0.66/0.3		lb/kg	

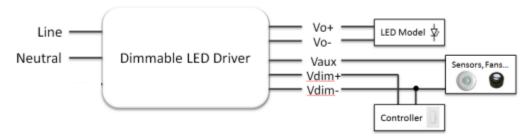
Safety & EMC Compliance	Category	Condition Description		
	UL8750	Light Emitting Diode (LED) Equipment for Use in Lighting Products, Class 2		
	Dielectric Strength (Hi-POT)	Primary to Secondary: 2500Vac /10mA max / 60 seconds (3 seconds for production)		
Cofoty Dogulations	Insulation Resistance	50M ohm min. @primary to secondary		
Safety Regulations	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, 2.5kV, combination wave		

(in Steel Case version)

■ Dimming Curve

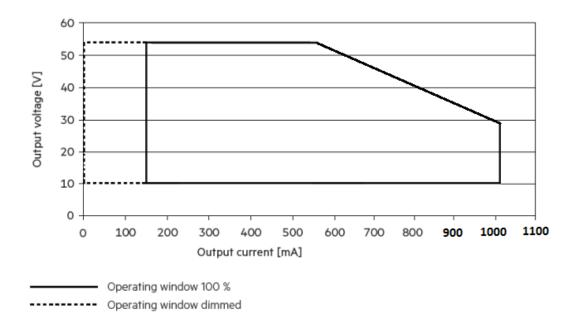
Parameter	Min.	Тур.	Max.
Vdim Sourcing Current	200uA	500uA	1mA
Vdim Allowed Input Voltage	-15 V		15 V
0-10V Dimming Range	0% (Vdim=1V)	Linear	100% (Vdim=9~10V)

Dimming Wire



Operating Window

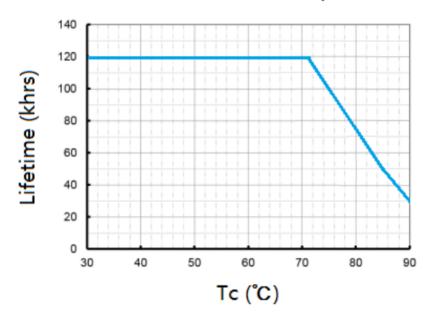
Make sure that the LED driver is operated within the given window under all the operation conditions. Special attention needs to be paid at dimming as the forward voltage of the connected LED modules varies with the dimming level.



■ Lifetime vs. Case Temperature

(in Steel Case version)

Lifetime vs. Case Temperature



■ Mechanical Outline (Unit: mm)

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

Tolerance: ±0.51 mm

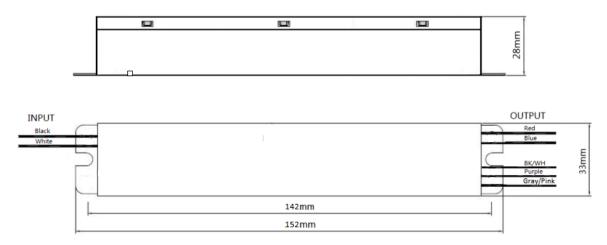


Figure 29, MR6YT

■ Wiring :(±20mm)



(in Steel Case version)

Input wiring:

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

Output wiring:

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

Dimming wiring:

Purple & Gray (or Pink) : $270mm \pm 10mm$, strip 10mm Tin Plated, 22AWG, UL1569.

Vaux wiring:

Black / White: $270 mm \pm 10 mm$, 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



(in Steel Case version)

Date	Rev.	Description of Change					
		Item					
3/15/2021	V1a	In Draft Release					
			when ambient	Reduce the output current to about 50mA once Ta ≧ 75			
		OTP description	temp is over	±10℃; Recover only If restart the input power at Ta≦			
			about 70° C, the	50±10℃.			
			driver output				
			current will				
			reduce to ~50mA				
0/40/0000			and recover the				
2/18/2022	V1b		driver restarts.				
		Tc	85℃	90℃			
	Add Wiring	,	Input wiring、Output wiring、Dimming wiring、				
		Add Willing	1	Vaux wiring			
		Add Lifetime vs. Case		Lifetime vs. Case Temperature			
		Temperature	/				
		Dimming Wire	/	Vaux			