MDR-608-24-60-LD

Features

- ✓ Constant Voltage Output
- ✓ ELV Dimmable on 120 V
- ✓ Class 2 Compliance
- ✓ Damp Location
- √ 5 Year Warranty
- ✓ Similar Dimension As Most Popular CV Driver In The Market

Note-

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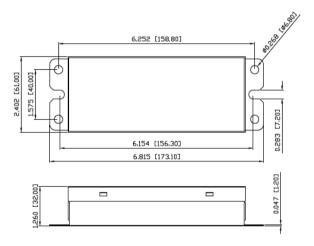
1. UL file: E340871

Mechanical and Thermal

Dimensions 6.8" (L) x 2.4"(W) x 1.26" (H) Weight 550 g

Lead Wire length 6" (Standard)

Max. Case Operating Temp. 80°C



*Dimension in Inch(Metric)

Protection

- · Auto-reset electronic short circuit
- · Overload protection
- · Class 2

■ Environmental Specifications

Operating Temperature -20° to 60°C

• Storage Temperature -20° to 70°C

• MTBF >100,000 hrs

· Lead Free SMT process

Wiring Diagram



1. Input – specification

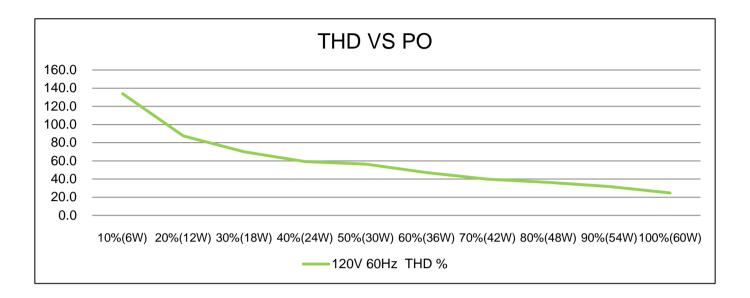
1. Input – specification					
	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range(Vin)	Vac	108	120-277	304	
Input Frequency Range	Hz	50	60	63	
Input Power	W		75		
Power Factor(PF)		0.9	>0.9		Nominal LED voltage
Input Current	А	-	-	0.63A@120VAC 0.27A@277VAC	
Inrush Current	А			4.5 A peak	According to IEC 60555
Total Harmonics Distortion (THD)				< 20%	At nominal input voltage and nominal LED voltage
Efficiency		-	> 82%	-	Efficiency is measured after driver has thermally stabilized + full load
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply				

2. Output – specification					
	Units	Minimum	Typical	Maximum	Notes
Output Voltage(Volt)	Vdc		24		
Output Current(lout)	mA		2500		Adjustable current setting; please refer to the current setting table
Output Current Tolerance	%		±3%		
Output Ripple Current					≤20% pk-to-pk of the rated output current for all models with Vout max≥32V
		< 50% pe	ak-to-peak of	2500mA	${\leq}50\%$ pk-to-pk of the rated output current for all models with Vout max ${\leq}30V$
					At nominal LED voltage and nominal input voltage without dimming
Dimming Range	%	1%		100%	Please refer to Dimmer compatibility list
			550		With nominal LED voltage and without dimmer attached
Star-up Time	ms		600		With nominal LED voltage, with an recommended dimmer attached(see dimmer compatibility list) and at the full dimming conduction angle
Isolation	Meet UL1	310/UL8750	for class 2 iso	plation power supply	
Operation Case Temperation	°C	-30		80C	

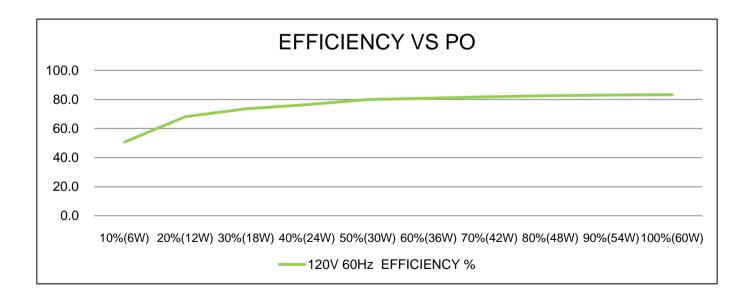
3. EMC / Protection / Compliance

Conducted and Radiated EMI		FCC CFR Title 47 Part 15 Class B and EN55022(CISPR 22) Class B compliant			
Immunity Compliance	ESD (Electrostatic Discharge)	IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3		
	Electrical Fast Transient	IEC61000-4-4	±2 kV on AC power port for 1 minute, ±1kV on signal/control lines		
	Surge	IEC61000-4-5	±1kV line to line/±2kV line to earth on AC power port, ±0.5kV for outdoor cables		
Transient Protection	Ring Wave		ANSI/IEEE c62.41-1-2002 & c62.41-2-2002 category A, 2.5kV ring wave		

THD of the driver VS Power Output (W)



Efficiency of the driver VS Power Output (W)





Power Factor VS Power Output (W)

