



# SPECIFICATIONS



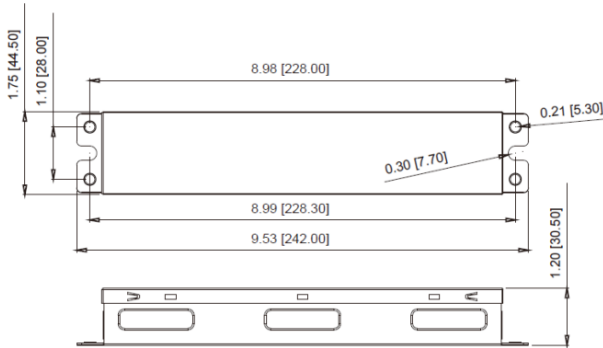
**CASAMBI**

Note-

- 1. UL Pending

## Mechanical and Thermal

Dimensions	L9.53" X W1.75" X H1.20"
Weight	540g
Lead Wire Length	6" (Standard)
Max. Case Operation Temp.	80°C



\*Dimension in Inch(Metric)

# MDR-304-24-100-LC

## Features

- ✓ Constant Voltage Output
- ✓ Class 2 Compliance
- ✓ Damp / Dry Location
- ✓ 5 Year Warranty
- ✓ Precise output tolerance (+/-3%)
- ✓ Similar dimension as most popular CV driver in the market
- ✓ CASAMBI Bluetooth dimmable

## 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



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## 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		110		
Power Factor(PF)		0.9	>0.9		From 100% to 80% of rated power
Input Current	A	-	-	0.9A@120VAC 0.4A@277VAC	
Inrush Current	A	Meet NEMA 410 requirements			See the inrush current information
Total Harmonics Distortion (THD)				20%	At nominal input voltage and nominal LED voltage
Efficiency		-	>86%	-	Efficiency is measured after driver has thermally stabilized + full load
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply				

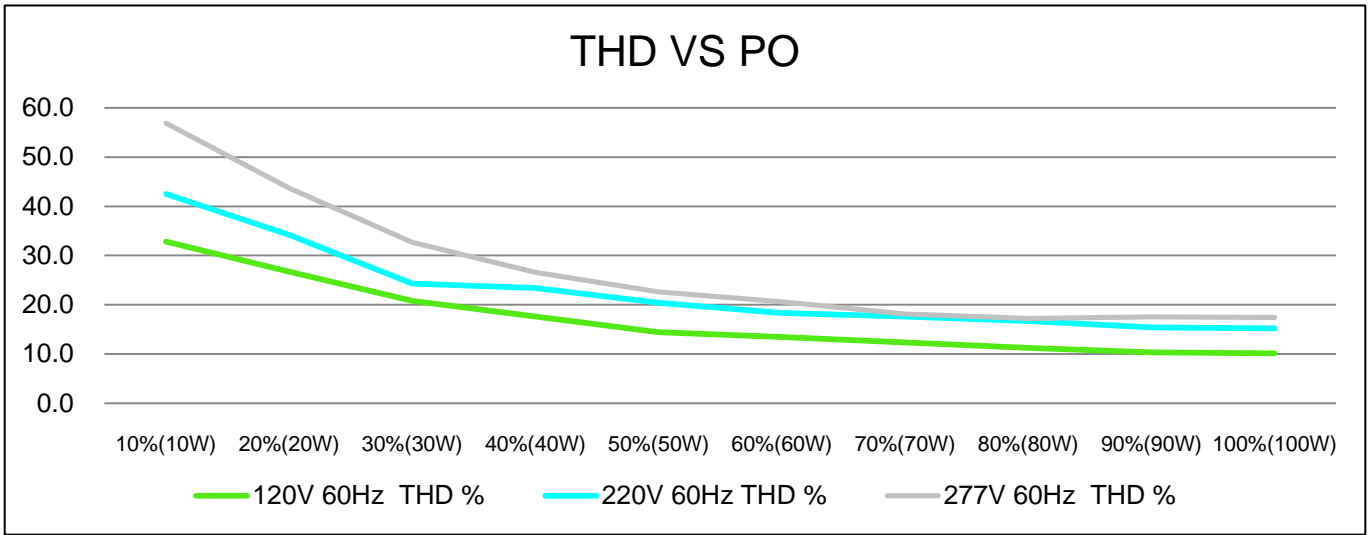
## 2. Output - specification

	Units	Minimum	Typical	Maximum	Notes
Output Voltage(Volt)	Vdc		24		
Output Current(Iout)	mA		4000		
Output Voltage Tolerance	%		+/- 3%		
Output Ripple Current	< 30% peak-to-peak of 4000 mA				At nominal LED voltage and nominal input voltage without dimming
Dimming Range	%	1%		100%	Please refer to Dimmer compatibility list
Star-up Time	ms		350-400		<ul style="list-style-type: none"> <li>Measured at the Maximum load and normal input voltage.</li> <li>Complies with California title 24 and Energy star ® luminaire specification.</li> </ul>
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply				
Operation Case Temperature	°C	-30		80C	
Audible Noise	dB	< 24dB Class A			
Radio Signal	dB	2.5 GHz 3dB			

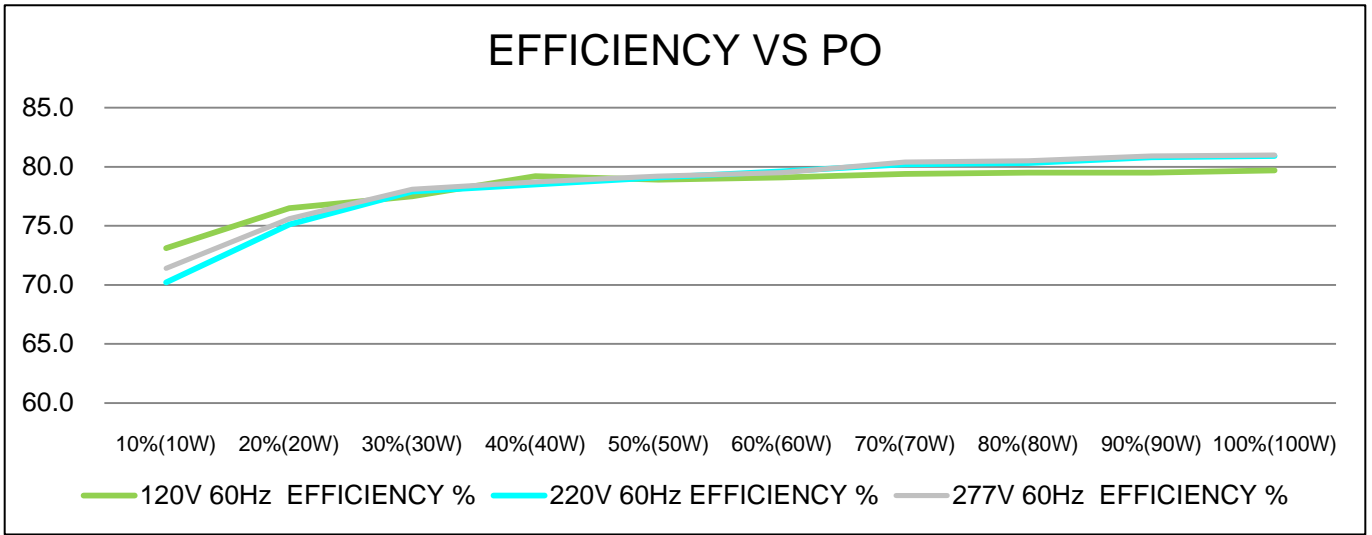
## 3. EMC / Protection / Compliance

Conducted and Radiated EMI		FCC CFR Title 47 Part 15 Class B and EN55015(CISPR 15) 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	±2kV 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		

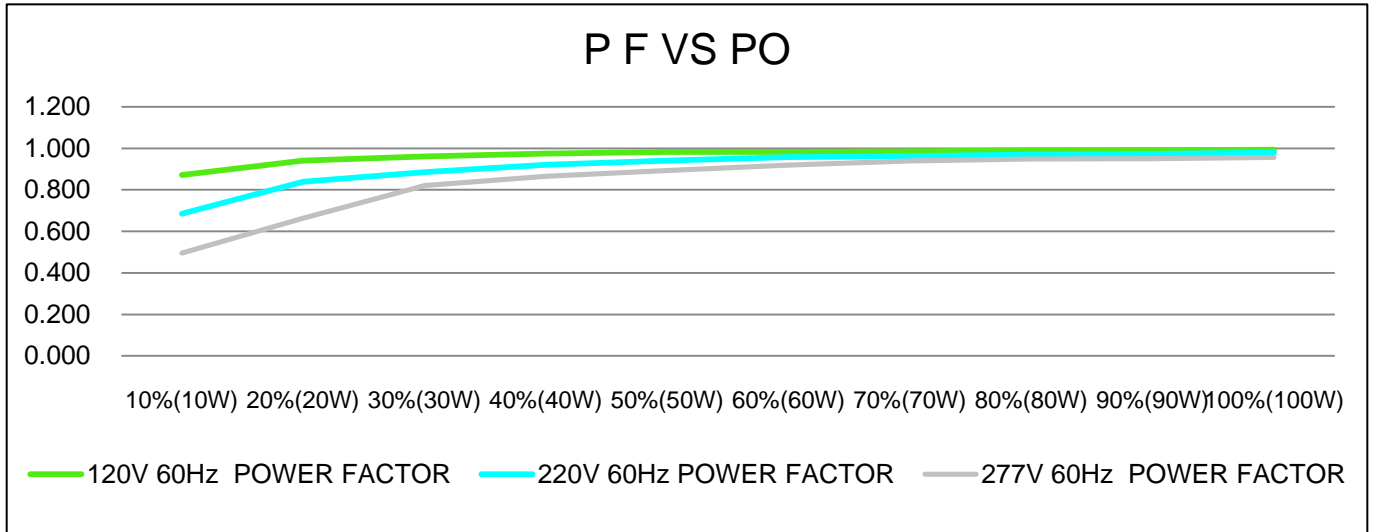
THD of the driver VS Power Output (W)



Efficiency of the driver VS Power Output (W)



Power Factor VS Power Output (W)



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