

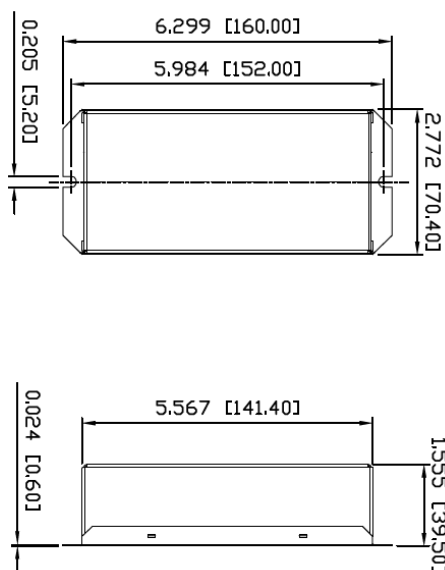


Note-

1. UL file: E340871

Mechanical and Thermal

Dimensions L6.299" x W8.772" x H1.555"
 Weight 600g
 Lead Wire Length 6"



Dimension in Inch/ Metric

MDR-505-48-100-D9

Features

- ✓ -Constant Voltage Output
- ✓ -0-10V Dimming
- ✓ -Class 2 Compliance
- ✓ -Damp Location
- ✓ -5 Year Warranty

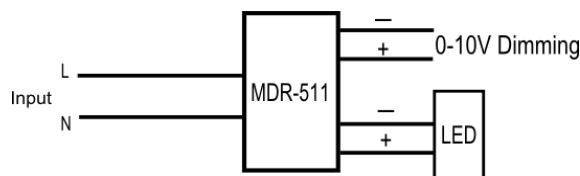
Protection

- Auto-reset electronic short circuit
- Overload protection
- Class 2
- Inherent Thermal Protection
- Hot Wire Protection
- Class 1 for 0-10V dimming wires

Environmental Specifications

- Operating Temperature -20° to 60°C
- Storage Temperature -20° to 70°C
- MTBF >100,000 hrs
- -Lead Free SMT process

Wiring Diagram



Electrical

Maximum Load	96W
Input Voltage	120~277V/50-60HZ
Output Voltage	48VDC
Output Current (max.)	2000mA
Power Factor	>0.90
Efficiency	80 typ.
No Load Loss	<1 W

1. Input - specification

	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range(Vin)	Vac		120-277		
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		-	> 85%	-	Efficiency is measured after driver has thermally stablized + full load
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply				

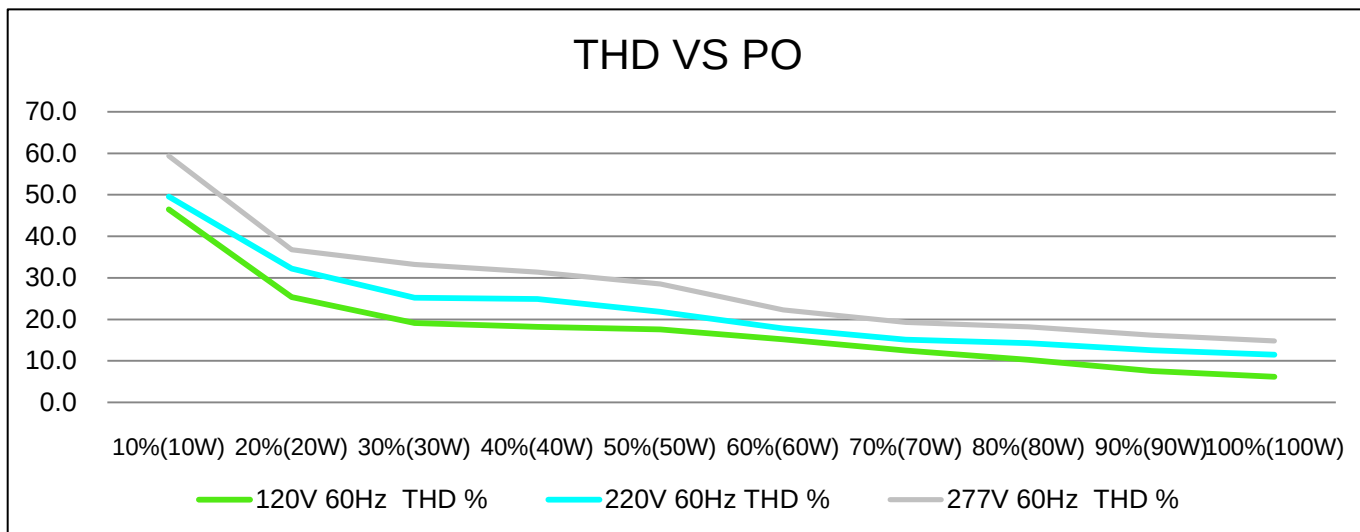
2. Output - specification

	Units	Minimum	Typical	Maximum	Notes
Output Voltage(Volt)	Vdc		48		
Output Current(Iout)	mA		2000		
Output Current Tolerance	%		±3		
Output Ripple Current	< 30% peak-to-peak of 2000mA				≤ 20% pk-to-pk of the rated output current for all models with Vout max ≥ 32V
					≤ 50% pk-to-pk of the rated output current for all models with Vout max ≤ 30V
					At nominal LED voltage and nominal input voltage without dimming
Dimming Range	%	2%		100%	Please refer to Dimmer compatibility list
Star-up Time	ms		450-500		- Measured at the Maximum load and normal input voltage. - Complies with California title 24 and Energy star ® luminaire specification.
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply				
Operation Case Temperature	°C	-30		80C	
Audible Noise	dB	< 24dB Class A			

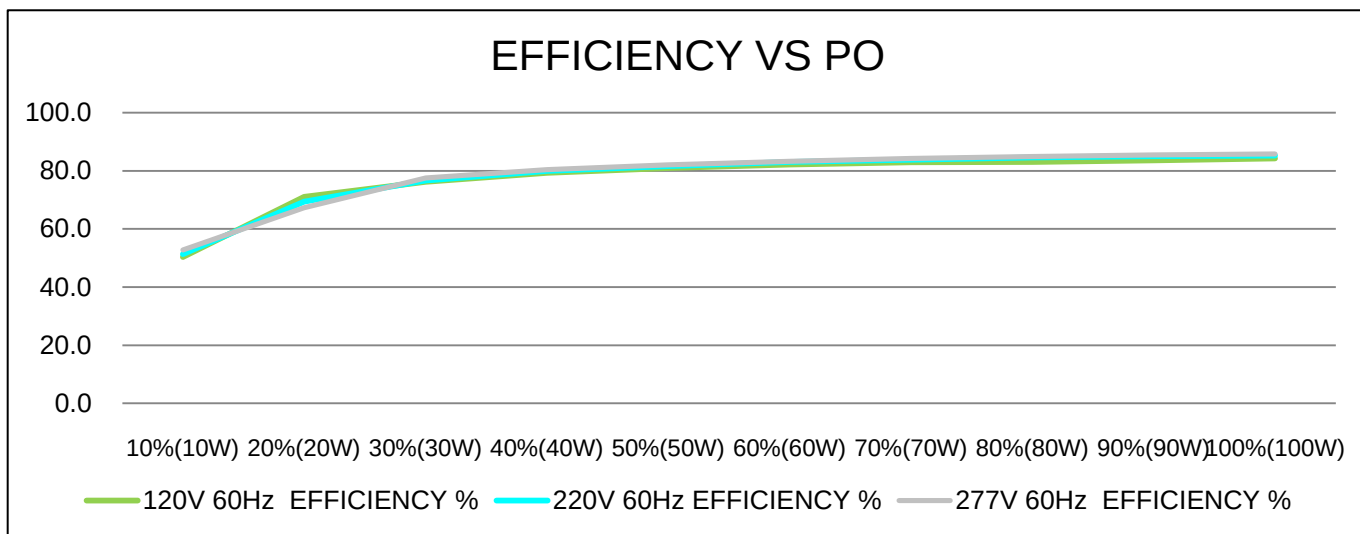
3. EMC / Protection / Compliance

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	±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	

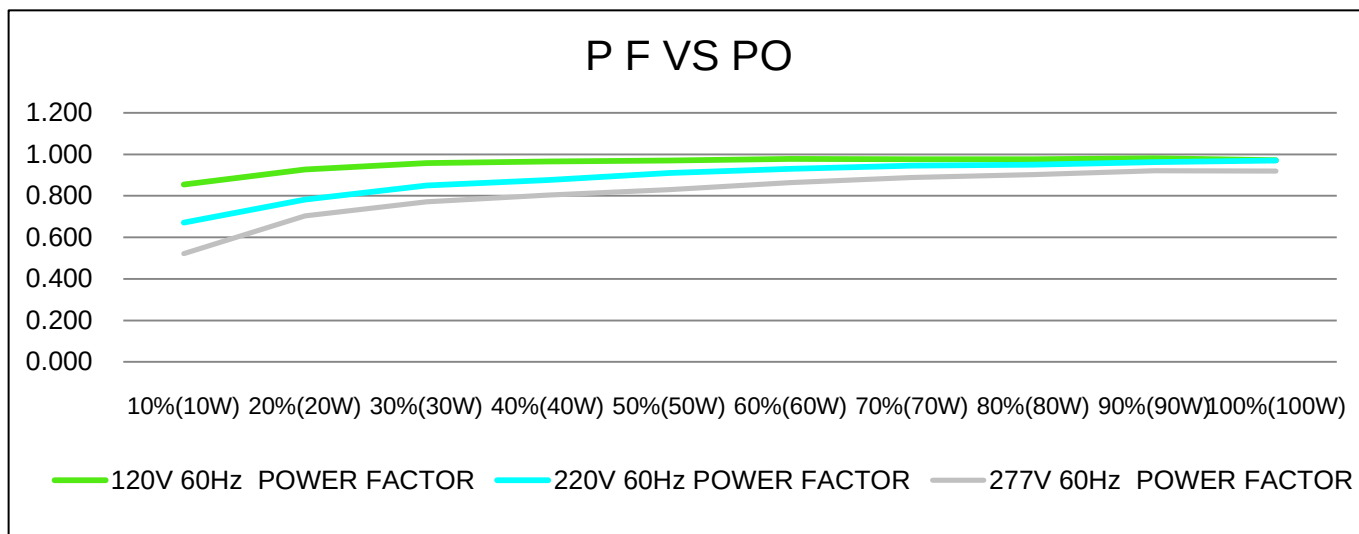
THD of the driver VS Power Output (W)



Efficiency of the driver VS Power Output (W)



Power Factor VS Power Output (W):



Lout of the driver VS Dim Voltage

