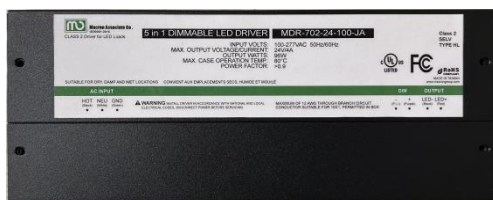




SPECIFICATIONS



UL File NO : E340871



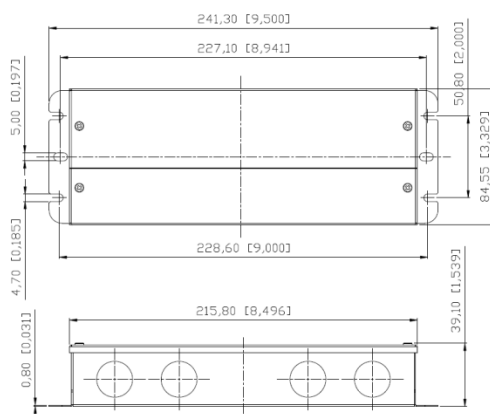
Mechanical

Dimensions L9.50" X W3.329" X H1.539"

Weight 900g

Lead Wire Length 6" (Standard)

Max. Case Operation Temp. 80°C



*Dimension in Inch(Metric)

MDR-702-24-96-JA

Features

- ✓ ELV, TRIAC and 0-10V dimming in One Unit
- ✓ Constant Voltage Output
- ✓ Dim to < 1%
- ✓ Vertical or horizontal surface mount
- ✓ Universal input 120-277V
- ✓ Pulse Width Modulation(PWM) output(high frequency) to reduce visible flicker
- ✓ TITLE 24
- ✓ Suitable for indoor & outdoor use
- ✓ Suitable for dry, damp and wet locations
- ✓ Integrated Junction Box for wiring
- ✓ Made in Taiwan
- ✓ 5 Year Warranty

Protection

- Short Circuit Protection
- Overload protection
- Over Temperature Protection
- Class 2
- UL8750 Certified
- FCC Class B (120V input)

Environmental Specifications

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

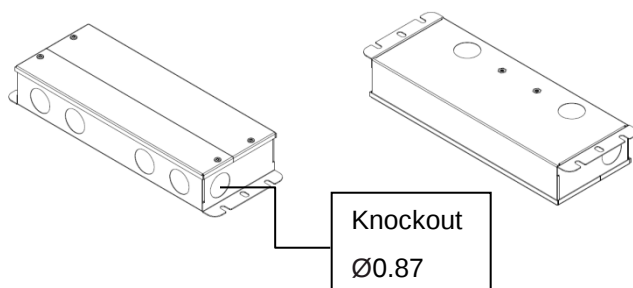
Macron Associate Co. – Power Supply Team

NO.352, Perng-Yi Road, Taiping, Taichung, Taiwan 411

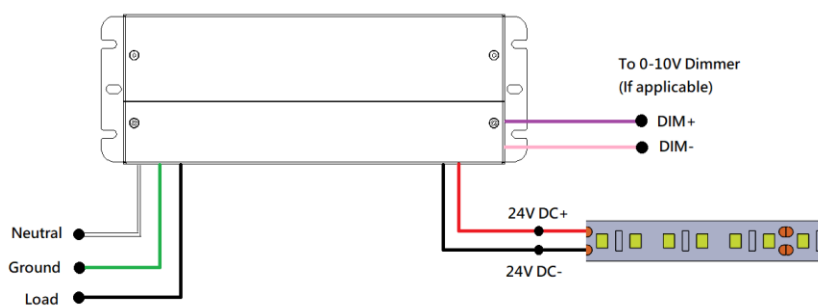
TEL: 886-4-22708357 FAX: 886-4-22767307 Email: macron@macrongroup.com



■ Wiring Compartment



■ Wiring Diagram



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	-	-	0.92A@120VAC 0.4A@277VAC	
Inrush Current	A	Meet NEMA 410 requirements			
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				

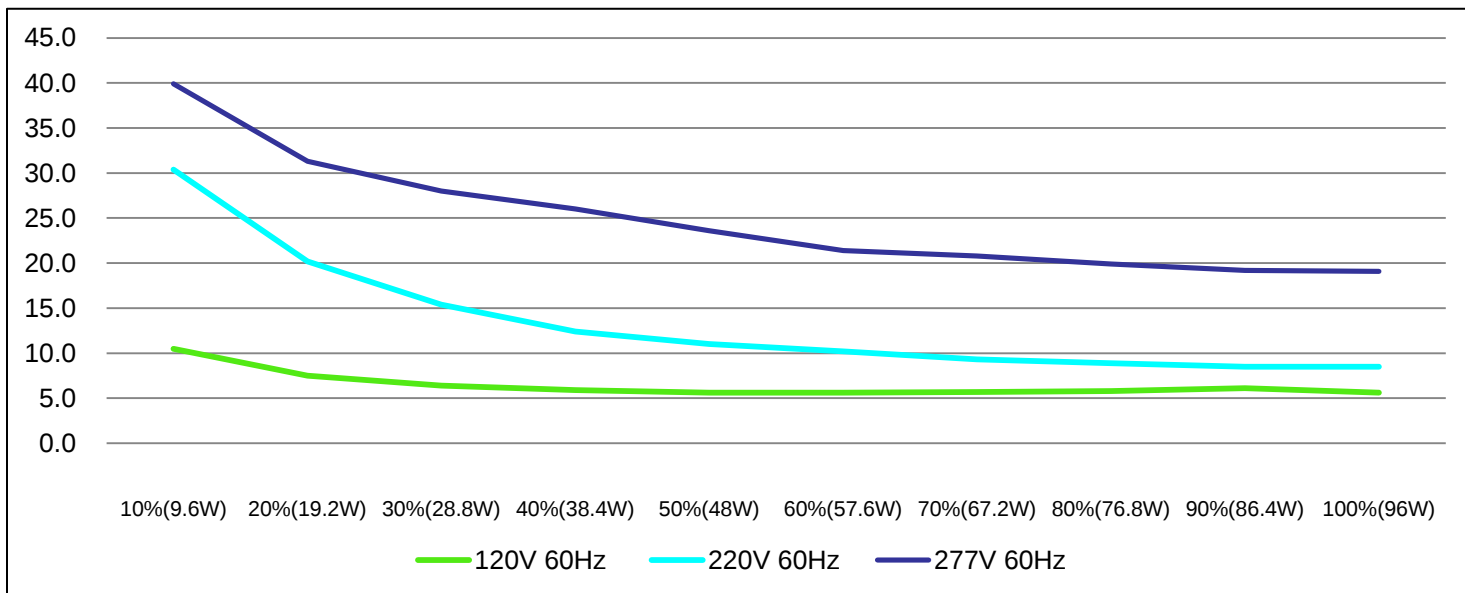
2. Output - specification

	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				≤ 20% pk-to-pk of the rated output current for all models with Vout max ≥ 24V
					≤ 50% pk-to-pk of the rated output current for all models with Vout max ≤ 24V
					At nominal LED voltage and nominal input voltage without dimming
Dimming Range	%	1%		100%	Please refer to Dimmer compatibility list
Star-up Time	ms		400-550		- 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			

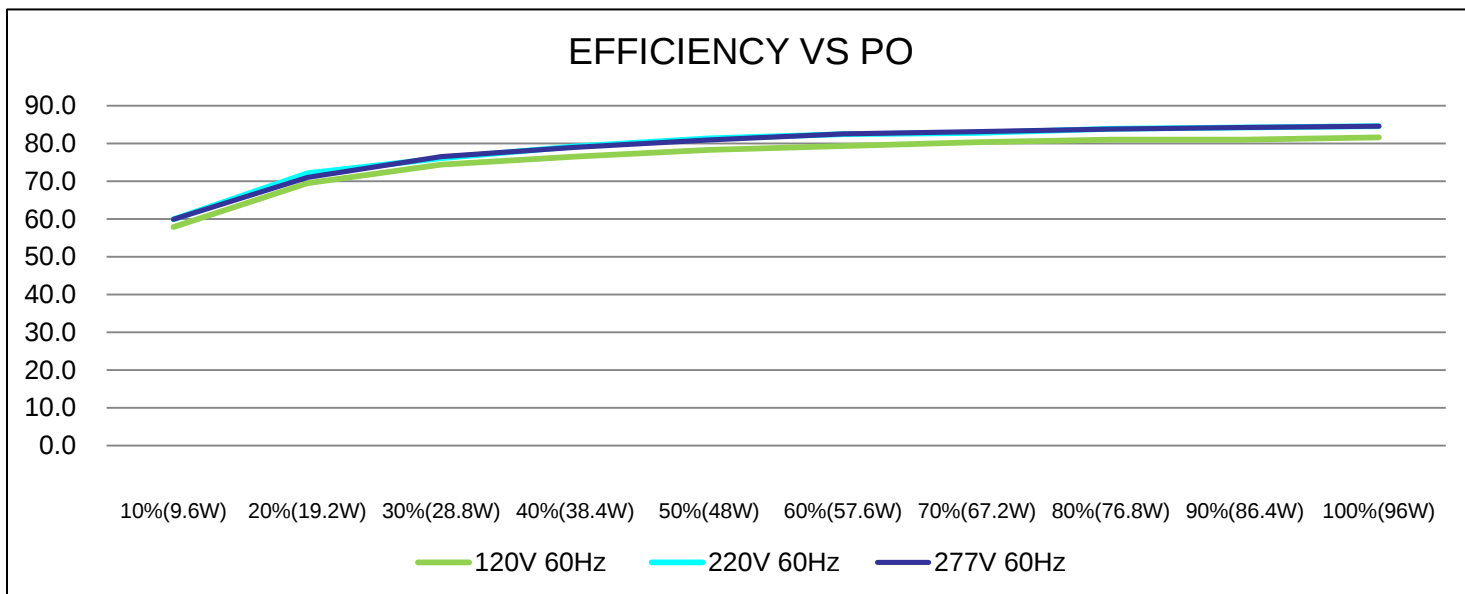
3. EMC / Protection / Compliance

Conducted and Radiated EMI		FCC CFR Title 47 Part 15 Class B and 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)

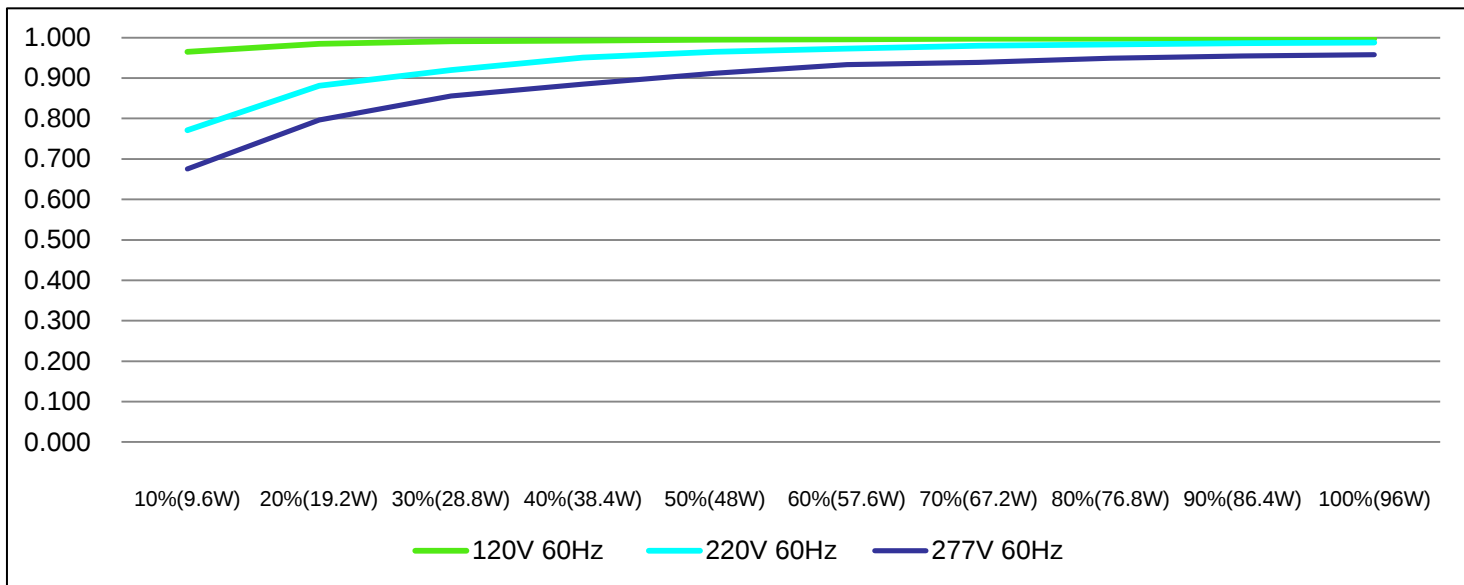


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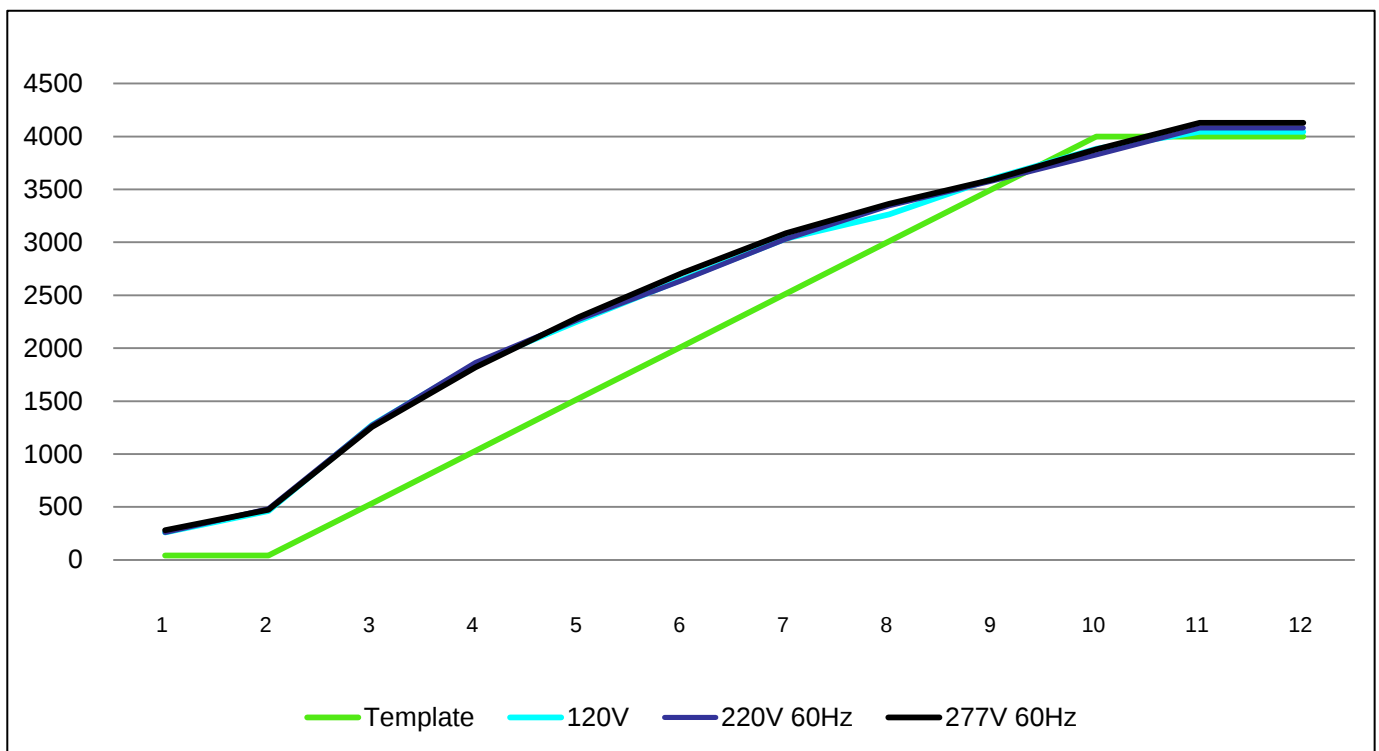
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Power Factor VS Power Output (W)



Lout of the driver VS Dim Voltage



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