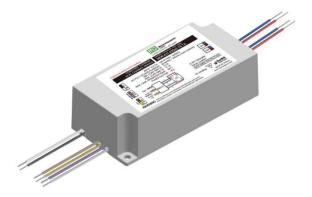
MDR-511TW-700-14-TA



Note-UL in process.

Environmental Specifications

- MTBF >50,000 hrs
- RoHS Compliant
- Lead Free SMT process
- Power Factor Correction / Low Load
- · FCC Class B Certified
- Operating Temperature -20° to 60°C
- Storage Temperature -20° to 70°C

Features

- √ 0-10V Dimmable
- ✓ designed for tune-able white LED
- ✓ Compact size
- ✓ Low profile
- ✓ Constant Current Output
- ✓ Active Power Factor
- ✓ Class 2 compliance
- √ 5 Year Warranty
- ✓ Support CASAMBI CBU-A2D/CBU-ASR Controller
- ✓ Support Ambientech 2ch Wall Switch

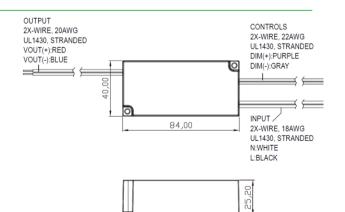
Protection

- · Overload protection
- · Thermal protection
- Class 2

Mechanical and Thermal

Dimensions L $3.878" \times W2.047" \times H 1.171"$ Weight 245 g Lead Wire Length 6" (Standard) Max. Case Operation Temp. 80°C

* Dimension in Inch / Metric



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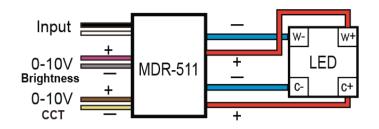
NO.352, Perng-Yi Road, Taiping, Taichung, Taiwan 411

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

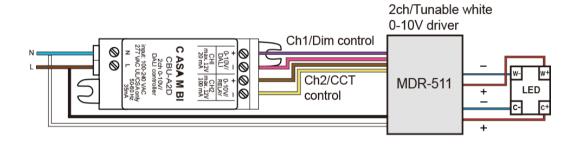


Wiring Diagram

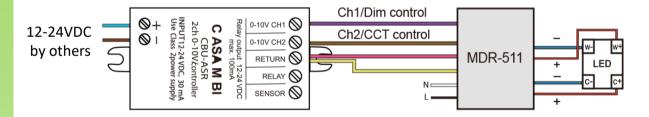
A. Wire Diagram/0-10V Dimmer(4 contact tunable white COB/engine)



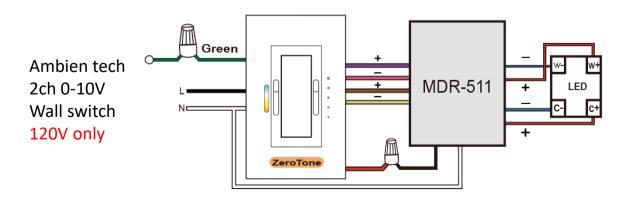
B. Wire Diagram/CASAMBI CBU-A2D Controller



C. Wire Diagram/CASAMBI CBU-ASR Controller



D. Wire Diagram/Ambientech 2ch 0-10V Wall Switch



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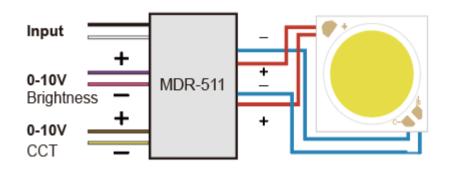
TEL: 886-4-22708357 FAX: 886-4-22767307 Email: macron@macrongroup.com



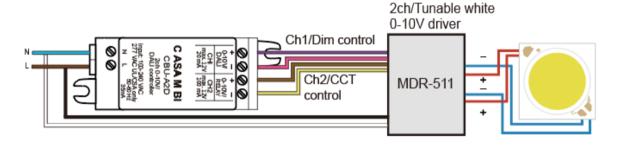


Wiring Diagram

A. Wire Diagram/0-10V Dimmer(3 contact tunable white COB)

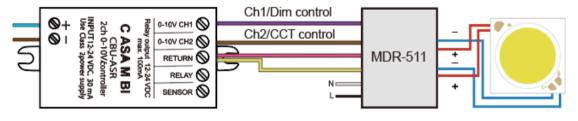


B. Wire Diagram/CASAMBI CBU-A2D Controller



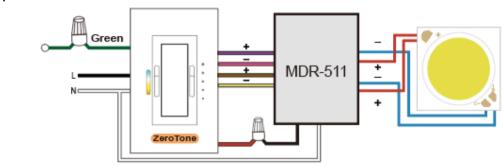
C. Wire Diagram/CASAMBI CBU-ASR Controller

12-24VDC by others"



D. Wire Diagram/Ambientech 2ch 0-10V Wall Switch

Ambien tech 2ch 0-10V Wall switch 120V only



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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		18		
Power Factor(PF)		0.9	>0.9		>80% Load
Input Current	А	-	-	0.15A@120VAC 0.65A@277VAC	
Inrush Current	А			4 A peak	According to NEMA410
Total Harmonics Distortion (THD)				20%	At nominal input voltage and nominal LED voltage
					2. Measure at full load
Efficiency		-	>78%	-	Efficiency is measured after driver has thermally stabilized + full load
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply				

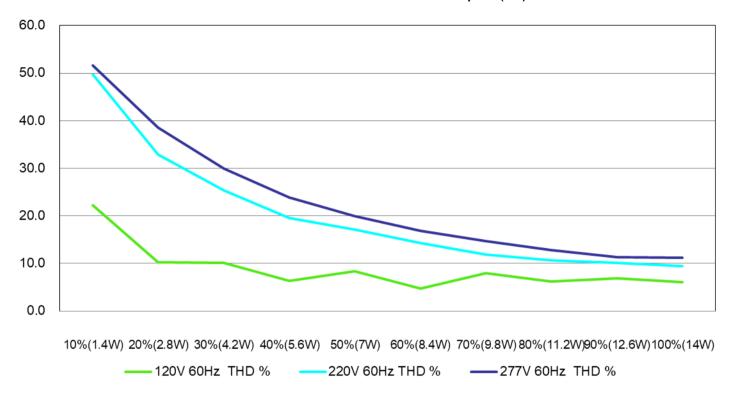
Output - specification

	Units	Minimum	Typical		Maximum	Notes
Output Voltage(V out)	Vdc	15			20	
Output Current(I out)	mA		700(Each channel)			
Output Current Tolerance	%		±3			
				≦20% pk-to-pk of the rated output current for all models with Vout max≧20V		
Output Ripple Current	<20)% peak-to- _l	oeak of 200 (Each o	≦50% pk-to-pk of the rated output current for all models with Vout max≦20V		
				At nominal LED voltage and nominal input voltage without dimming		
Dimming Range	%	1%			100%	Please refer to Dimmer compatibility list
Start-up Time			300			With nominal LED voltage and without dimmer attached
	ms		350			With nominal LED voltage, with an recommended dimmer attached(see dimmer compatibility list) and at the full dimming conduction angle
Operation Case Temperature	°C	-30			80C	
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply					

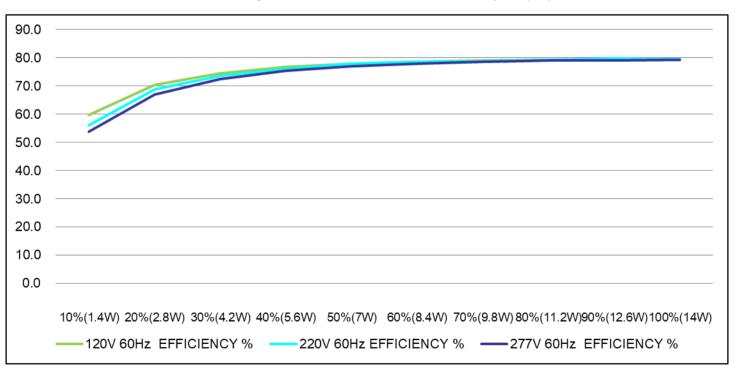
EMC / Protection / Compliance

Conducted and Radiated EMI		FCC CFR Title 47 Part 15 Class B and EN55015(CISPR 15) Class B compliant			
ESD (Electrostatic Discharge)		IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3		
Immunity Compliance	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):



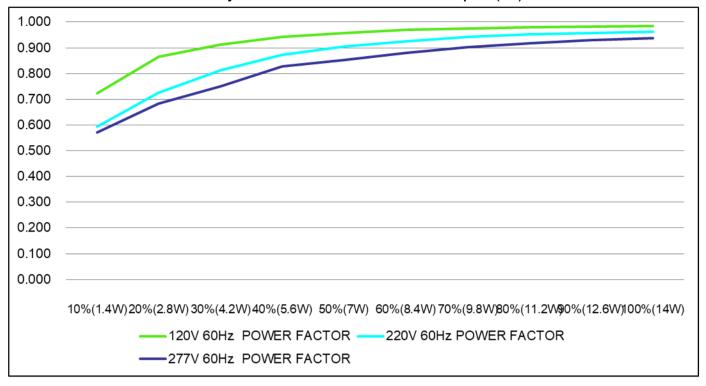
Efficiency of the driver VS Power Output (W):





Electrical Specifications

Efficiency of the driver VS Power Output (W):



Dim Voltage(V) VS Output Current

