

24W 12V Class 2 Dimmable Driver Specification

MD-012-024VT Class 2 Electronic Dimmable Driver



Features

- Constant Voltage Output
- Universal AC input: 100~130VAC
- Power Factor > 0.8
- High efficiency > 84%
- Protection : Short circuit / Over loading / Over current / Over temperature
- Protective plastic housing
- Easy installation
- Free Air convection cooling
- Compatible with Forward phase, Magnetic low voltage and Triac Dimmers
- Flicker-free dimming, PWM output
- Intertek listed
- Suitable for LED lighting and sign lighting applications



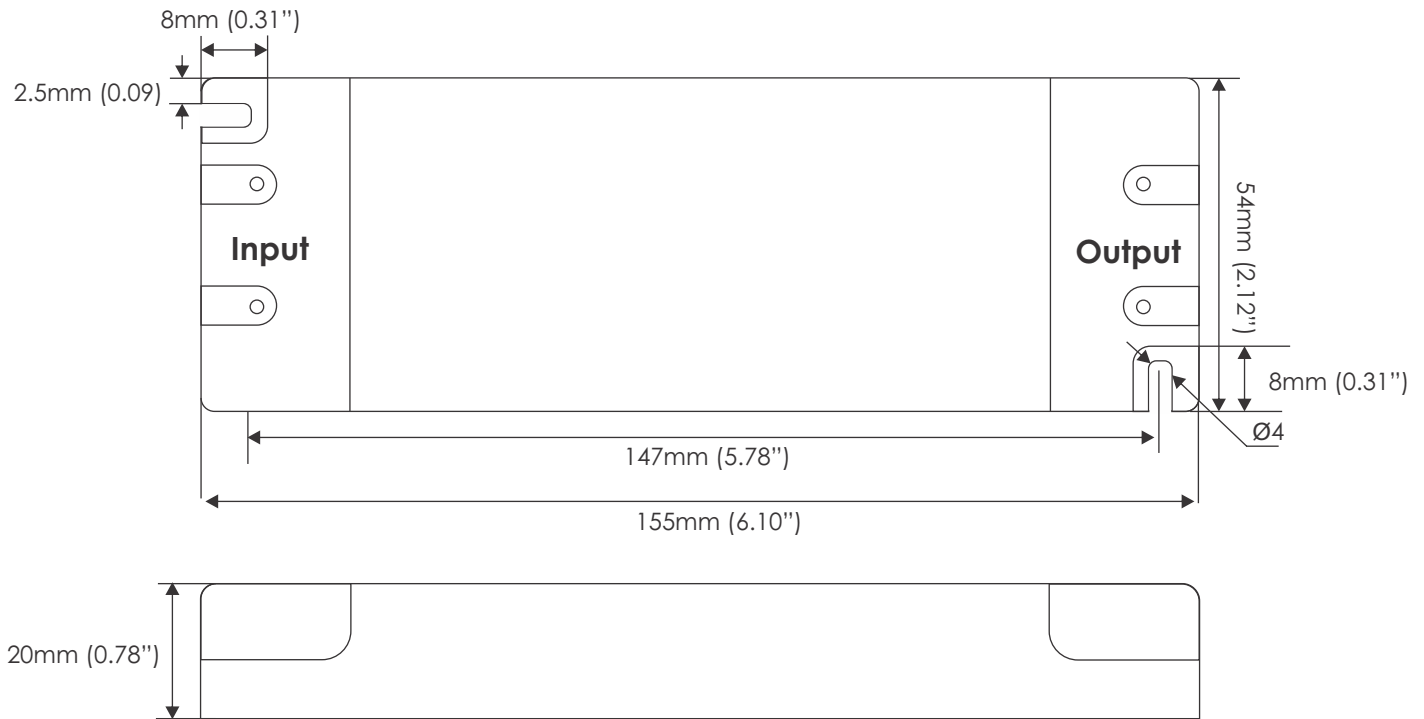
Specifications

Output	DC Voltage	12V	
	Voltage Tolerance	±0.5V	
	Rated Current	2.00A	
	Rated Power	24W	
Input	Voltage Range	100~130VAC / 170~265VAC	
	Frequency Range	47~63Hz	
	Power Factor (Typ.)	PF ≥ 0.75	
	Efficiency (Typ.)	> 83%	
	AC Current (Typ.)	0.32A @ 120VAC, 0.16 @ 220VAC	
	Leakage Current	< 0.70mA / 110VAC, < 0.50mA / 220VAC	
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Current	≤ 1.2 * I out	
	Over Loading	≤ 120%	
	Over Temperature	100°C ± 10°C (The output voltage will turn off when the temperature is higher than 100°C ± 10°C, after the temperature drop off, it will recover) automatic	
Environment	Working Temp.	-40°C ~ 60°C (-40°F ~ 140°F)	
	Working Humidity	20~90 % RH, non-condensing	
	Storage Temp. Humidity	-40°C ~ 80°C, 10~95 % RH	
	Temp. Coefficient	±0.03% / °C (0°~50°C)	
	Vibration	10~500Hz, 2G 10min/1 cycle, period for 60min each along X, Y, Z axes	
Safety&EMC	Safety standards	UL8750 + UL1310	
	Withstand voltage	I/P-O/P:1500KVAC	
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
	EMC EMISSION	FCC Part 15 B	
Other	Net. Weight	0.2Kg (0.44lbs)	0.75Kg (1.65lbs) (with junction box)
	Size	155L x 54W x 20H mm (6.1" x 2.12" x 0.78")	350L x 77W x 37H mm (13.77" x 3.03" x 1.45")(with junction box)

24W 12V Class 2 Dimmable Driver Specification

MD-012-024VT Class 2 Electronic Dimmable Driver

Product Dimension



Dimming Operation

- The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connecting a triac dimmer
- Match with leading edge Triac Dimmer (Can customized as a driver only matching trailing edge Triac Dimmers if needed)
- Use dimmers with power at least 2.5 times as the output power of the driver
- For forward phase, magnetic low voltage and Triac dimmers

Warning

- Check polarity
- Risk of Electric Shock. Indoor use only. Suitable for dry and damp locations.
- Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician.
- Risk of Electric Shock. Mount the unit at a height more than 1 ft (30cm) from the ground