










PrimaVolt® Dimmable Driver

AL-98-03-12045, AL-98-03-24045

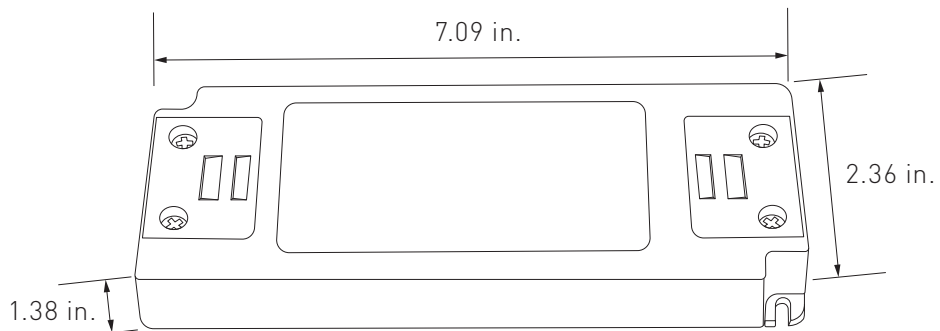


- Compatible with leading edge and trailing edge TRIAC dimmers
- Wide-range compatibility, flicker-free dimming
- Short circuit and over current protection
- Air-cooled for long life operation
- Dry environment (IP40)

QUICK SPECIFICATIONS

Input		120V DC
Features	  	100% maximum load 60% minimum load Class 2
Environment	 	Dry environment (IP40) Protected against solid objects greater than 1mm
Certifications	 	RoHS
Warranty		5 year limited

DIMENSIONS

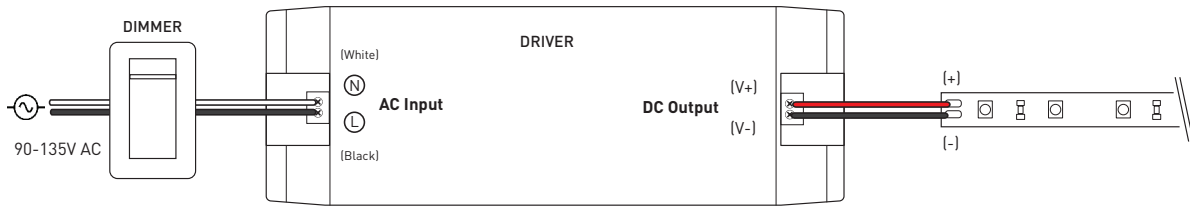


TECHNICAL INFORMATION

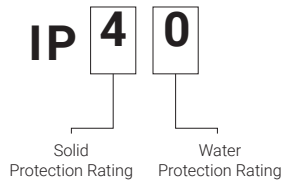
Item Number		AL-98-03-12045	AL-98-03-24045
Output	DC Voltage	12V DC	24V DC
	Voltage Accuracy	±0.5%	±0.5%
	Rated Current	3.75A	1.87A
	Rated Power	45W	45W
	Minimum Load	0% (on/off switch) / 60% (w/dimmer)	
Input	Voltage Range	120V AC	
	Frequency Range	47~63HZ	
	Power Factor (Avg.)	PF≥0.94/120V ; PF≥0.95/220V ; PF≥0.93/265V	
	Full Load Efficiency (Avg.)	>84% (12V DC)	>84% (24V DC)
	AC Current (Maximum)	0.34A/120V AC – 0.27A/220V AC – 0.24A/265V AC	
	Leakage Current	<0.25mA/120V/230V AC	
Protection	Short Circuit	Short circuit protection and autorecovery	
	Over Voltage	≤140V AC	
Environment	Working Temperature, Humidity	-40~+60°C / -40~+140°F / 20~90%RH, non-condensing	
	Storage Temperature, Humidity	-40~+80°C, -40~176°F / 10~95%RH	
Safety and EMC	Safety Standards	EN-60950-1. EN-61347-1/-2/-13	
	Withstand Voltage	I/P-O/P: 3.75KV AC	
	Isolation Resistance	I/P-O/P: 100MΩ/500V DC/25°C, 77°F/70%RH	
	EMC Emission	Compliance to EN55015, EN61000-3-2 (≥50% load)	
	EMC Emission	Compliance to EN55015; EN61000-4-2,3, 4, 5, 6, 8, 11, EN61547, a light industry level (surge4KV)	
Other	Warranty	5 Year Limited	
	Dimensions (L x W x H)	7.09 x 2.36 x 1.38 in.	

All parameters NOT specially mentioned are measured at 110V, 230V AC input, rated load, and 25°C of ambient temperature. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf and 47uf parallel capacitor.

WIRING DIAGRAMS



IP (INGRESS PROTECTION) RATING GUIDE



Solid Ingress Rating	Water Ingress Rating
0 Not protected against solid objects	0 Not protected against water
1 Protected against solid objects greater than 50mm	1 Protected against vertically falling water droplets
2 Protected against solid objects greater than 12.5mm	2 Protected against vertically falling water droplets with enclosure titled up to 15°
3 Protected against solid objects greater than 2.5mm	3 Protected against sprays of water up to 60°
4 Protected against solid objects greater than 1mm	4 Protected against water splashes from all directions
5 Protected against limited amounts dust	5 Protected against jets of water
6 Dust tight	6 Protected against heavy seas and jets of water
	7 Protected against immersion in 1m of water for up to 30 min.

TROUBLESHOOTING

Q: Why are the lights connected to the driver blinking roughly once a second?

A: The driver may be overloaded. Check to make sure the maximum wattage is not being exceeded. There could also be a possibility of incompatible voltage. Confirm that the driver and tape light voltage match.

Q: How do I determine the compatibility?

A: Check the voltage, wattage, load capacity of both the tape light and driver.

Q: Is it possible to have multiple runs of tape light that are daisy-chained together connect to a driver with 1 lead wire?

A: Yes, but only if the total length of consecutive runs do not exceed the tape light's maximum run and also does not exceed the driver's maximum wattage.