

4-in-1 PowerFactor™ Dimmable Driver

AL-98-10-24192-4in1-MT Specification Submittal



4-in-1 PowerFactor™ Dimmable Drivers provide smooth, stable, efficient, and flicker-free dimming capability for LED lighting. They are compatible with many models of:

- MLV (forward phase dimming)
- ELV (reverse phase dimming)
- 0-10V dimming
- 1-10V dimming

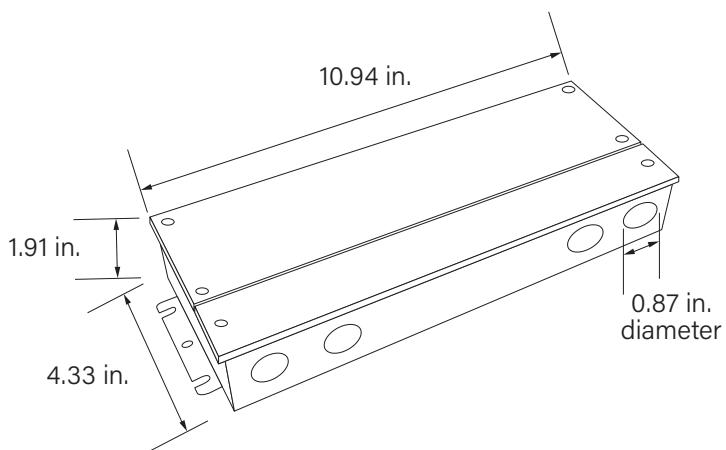
This sophisticated power supply is rated for dry, damp and wet location use.



Features

- 99% PowerFactor
- 100% maximum load
- 10% minimum load
- Class 2

Dimensions



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Technical Information

Output	DC Voltage	24V DC
	Rated Current	2*4A
	Rated Power	192W (2*96)
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
Input	Voltage Range	100-277 AC
	Frequency Range	47~63Hz
	Power Factor (Typ.) at Full Load	0.99@120V AC, 0.94@277V AC
	THD (Typ.) at Full Load	<20%
	Efficiency (Typ.) at Full Load	87% @120V AC, 89%@277V AC
	AC Current (Maximum)	2.3A@100V AC, 0.85A@277V AC
	Inrush Current (Typ.)	19A,1.3ms@50%120VAC, 38A,960us@50%277VAC
Protection	Leakage Current	<0.50mA
	Short Circuit	Shut down o/p voltage, repower on to recover after fault condition is removed
	Over Loading	≤120% Hiccup mode, recovers automatically after fault condition is removed
	Over Temperature	100°C±10°C / 212°F±50°F shut down o/p voltage, automatically recover after cooling
Environment	Working Temperature / Humidity	-40~+60°C / -40~+140°F / 20~95%RH, non-condensing
	Storage Temperature Humidity	-40~+80°C / -40~+176°F / 10~95%RH, non-condensing
	Temperature Coefficient	±0.03%/"C (0~50°C) / (32~122°F)
	Vibration	10~500Hz, 5G 12 min. / 1 cycle, period for 72min. each along X,Y,Z axes
Safety & EMC	Safety Standards	UL8750, CAN/CSA-C22.2 No.250.13(US)
	Withstand Voltage	I/P-O/P:1.8KVAC, I/P-FG:1.8KVAC, O/P-FG:1.8KVAC (US)
	Isolation Resistance	I/P-O/P:100MΩ / 500V DC / 25°C / 70%RH
	EMC Emission	FCC 47 CFR Part 15, Subpart B
Other	Warranty	6 Year Limited
	Size (Junction Box)	10.94 x 4.33 x 1.91 in. (LxWxH)

All parameters if NOT specially mentioned are measured at 120V AC input, rated load and 25°C/77°F ambient temperature.

Warning: Do NOT reverse polarity high voltage input of the driver as it will destroy the product.

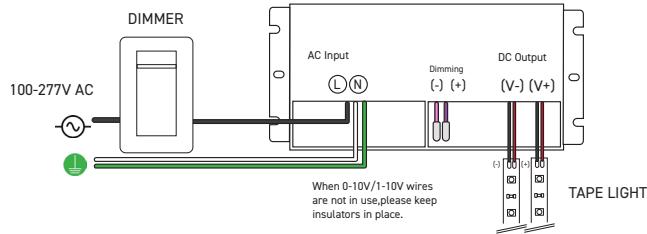
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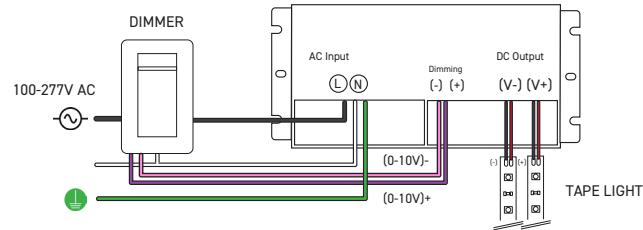
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Wiring Diagram

TRIAC dimming



0-10V/1-10V dimming



Note: Dimmers switch wiring for reference use only. Please follow instructions provided with the dimer switch.

Safety & Tips

- Before commencing any installation or maintenance work, disconnect the driver from AC power entirely.
- Maintain 4-6 inches clearance around the driver and make sure that it is exposed to open airflow. Do not mount the driver near a heat source.
- Installing this driver in a high ambient temperature environment may increase the internal component temperature and will require a derating in output current.
- The current rating of the high-voltage supply wire should be greater than that of the driver's current requirement.
- When using wet location models of this driver to power LED lighting with wet location connectors, verify that the connection between the driver and the lighting fixture is watertight.

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.