# **OPTIQUE**

# 4-in-1 PowerFactor™ **Dimmable Driver**

AL-98-10-24300-4in1 Specification Sheet





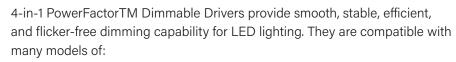












- MLV (forward phase dimming)
- ELV (reverse phase dimming)
- 0-10V dimming
- 1-10V dimming

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

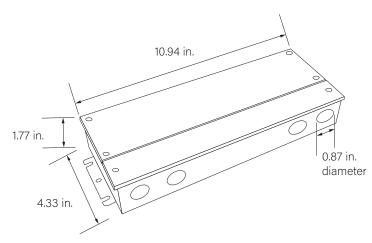


### **Features**

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



### **Dimensions**





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### **Technical Information**

DC Voltage 24V DC  Rated Current 12.5A	
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Rated Power 300W	
Output Voltage Tolerance ±0.5V	
Voltage Regulation ±0.5%	
Load Regulation ±1%	
Voltage Range 100-277 AC	
Frequency Range 47~63Hz	
Power Factor (Typ.) at Full Load 0.99@120V AC, 0.95@277V AC	
THD (Typ.) at Full Load <20%	
Efficiency (Typ.) at Full Load 88%@120V AC, 92%@277V AC	
AC Current (Maximum) 3.4A @ 100V AC	
Inrush Current (Typ.) 20A, 50%, 1.8ms @120V AC; 35A, 50%, 1.9ms @277 AC	
Leakage Current <0.50mA	
Short Circuit Shut down o/p voltage, repower on to recover after fault condition is remove	d
Protection Over Loading ≤120% shut down o/p voltage, repower on to recover after fault condition is	removed
Over Temperature 100°C±10°C / 212°F±50°F shut down o/p voltage, automatically recover after	r cooling
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	
Environment           Temperature Coefficient         ±0.03%/°C (0~50°C) / (32~122°F)	
Vibration 10~500Hz, 5G 10 min. / 1 cycle, period for 60min. each along X,Y,Z axe	S
Safety Standards UL8750	
Withstand Voltage I/P-O/P:1.88KV AC	
Safety & EMC Isolation Resistance I/P-O/P:100MΩ / 500V DC / 25°C / 70%RH	
EMC Emission FCC 47 CFR Part 15, Subpart B	
Warranty 6 Year Limited Other	
Size (Junction Box) 10.94 x 4.33 x 1.77 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.





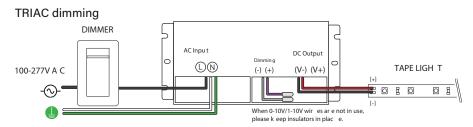
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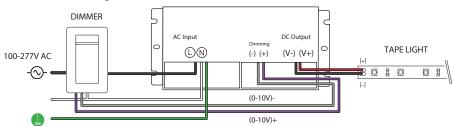
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### Wiring Diagram



### 0-10/1-10V 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.

