ALLOY L = D° Specifications

Non-Dimmable Drivers

AL-98-04-12060, AL-98-04-24060



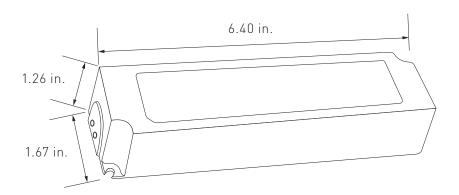
Alloy LED offers Non-Dimmable Drivers that supply reliable, efficient low voltage power to RGB and RGB-W color controllers (which have on-board dimming functionality) and for use with white tape light on an on/off switch. Although non-dimmable drivers are compatible with AC on/off switches, they are not dimmable with AC dimmer switches.

- Already derated (can be loaded to maximum wattage capacity
- IP67 for use outdoors or indoors in wet environments
- 5 year warranty

QUICK SPECIFICATIONS

Input	120V	120V AC
Features	100% 0% Max. Load	100% maximum load 0% minimum load
Environment	[P67]	Dry/wet environment (IP67) Dust tight and protected against immersion in 1m of water for up to 30 mins
Certifications	CAL US	RoHS UL Recognized Component
Warranty	S YEARS MARANT	5 year limited

DIMENSIONS



ALLOY LED® Specifications

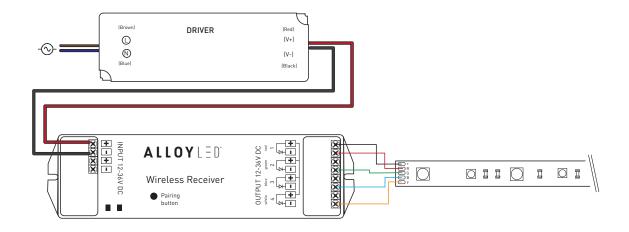
TECHNICAL INFORMATION

Item #		AL-98-04-12036	AL-98-04-24036	
Output	DC Voltage ¹	12V DC	24V DC	
	Rated Current	5A	2.5A	
	Current Adj. Range	0~5A	0~2.5A	
	Rated Power	60W	60W	
	Ripple & Noise (Max.) ²	120mVp-p	150mVp-p	
	Voltage Tolerance ³	±5.0%		
	Line Regulation	±1.0%		
	Load Regulation	±2.0%		
	Setup, Rise Time ⁶	500ms, 20ms/230V AC 500ms, 20ms/115V AC at full load		
	Hold Up Time (Avg.)	50ms/230V AC 16ms/115V AC at full load		
Input	Voltage Range ⁴	120V AC		
	Frequency Range	47~63HZ		
	Efficiency (Avg.)	>83% (12V DC)	>86% (24V DC)	
	AC Current (Avg.)	1.2A/115V AC 1A/230V AC		
	Inrush Current (Max.)	COLD START 60A (twidth=510µs measured at 50% Ipeak) at 230V AC		
	Leakage Current	0.25mA /240V AC		
Protection	Overload	110~150% rated output power		
		Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	Over Voltage	13.8~16.2V	27.6~32.4V	
		Protection type: Shut down o/p voltage, re-power on to recover		
Environment	Working Temp.	-30~+70°C, -22°F~+158°F (Refer to"Derating Curve")		
	Working Humidity	20~90% RH, non-condensing		
	Storage Temp., Humidity	-40~+80°C, -40~176°F / 10~95%RH		
	Temp Coefficient	±0.03%/°C (0~50°C, 32~122°F)		
	Vibration	10~500Hz~2G 10min./1 cycle, period for 60min. each along X, Y, Z axes		
Safety & EMC	Safety Standards	UL879, UL1310, CSA C22.2 No. 207-M89, CAN/CSA C22.2 No. 223-M91, IP67, IEC60950-1:2005+A2:2013 approved; design refer to TUV EN60950-1		
	Withstand Voltage	I/P-O/P: 3KV AC		
	Isolation Resistance	I/P-O/P: 100MΩ/500V DC/25°C, 77°F/70%RH		
	EMC Emission	Compliance to EN55022 (CISPR22) ClassB, EN61000-3-2 Class A,EN61000-3-3		
	EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A		
Other	Warranty	5 Year Limited		
	MTBF	732Khrs min. MIL-HDBK-217F (25°C, 77°F)		
	Size	6.4 x 1.67 x 1.26 in.		

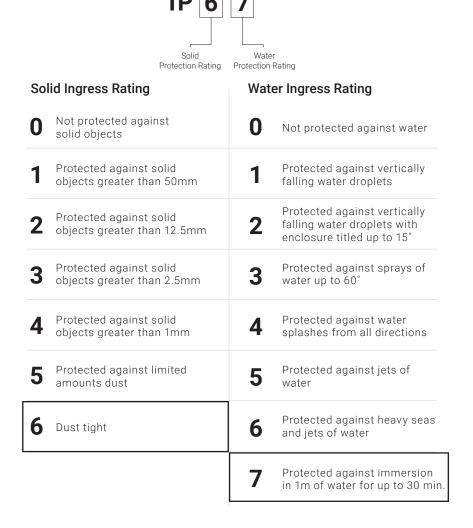
- 1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C, 77°F of ambient temperture.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltage. Please check the static characteristics for more details.

 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the setup time.
- 7. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit. 8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes.

WIRING DIAGRAMS



IP (INGRESS PROTECTION) RATING GUIDE



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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.