ALLOY L = D° Specifications

Non-Dimmable Drivers

AL-98-04-12036, AL-98-04-24036



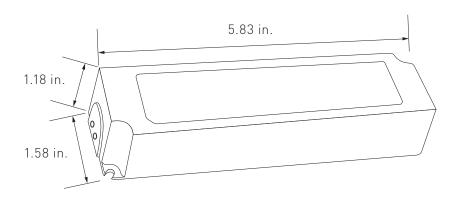
Alloy LED offers Non-Dimmable Drivers that supply reliable, efficient low voltage power to RGB and RGB-W color controllers (which have on-board dimming functionality) and for use with white tape light on an on/off switch. Although non-dimmable drivers are compatible with AC on/off switches, they are 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



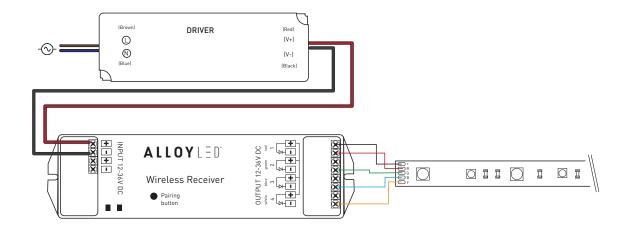
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TECHNICAL INFORMATION

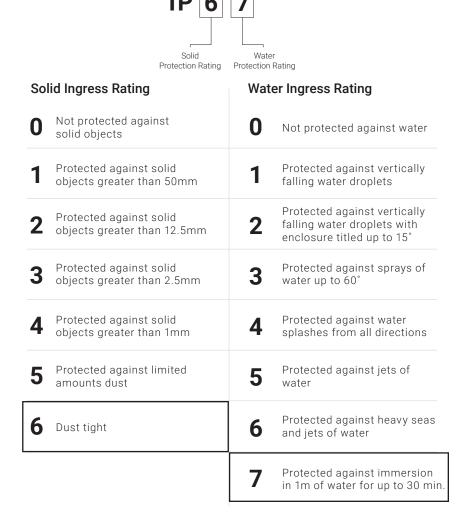
Item #		AL-98-04-12036	AL-98-04-24036	
Output	DC Voltage ¹	12V DC	24V DC	
	Rated Current	3A	1.5A	
	Current Adj. Range	0~3A	0~1.5A	
	Rated Power	36W	36W	
	Ripple & Noise (Max.) ²	120mVp-p	150mVp-p	
	Voltage Tolerance ³	±5.0%		
	Line Regulation	±1.0%		
	Load Regulation	±2.0%		
	Setup, Rise Time ⁶	500ms, 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.)	>84% (12V DC)	>85% (24V DC)	
	AC Current (Avg.)	1.1A/115V AC	, ,	
	Inrush Current (Max.)	COLD START 55A (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		
		13.8~16.2V	27.6~32.4V	
	Over Voltage	Protection type: Shut down o/p voltage, re-power on to recover		
Environment	Working Temp30~+65°C, -22°F~+149°F (Refer to "Derating Curve")		(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 UL1310, CAN/CSA C22.2 No.223-M91, IP67approved; design refer to TUVEN60950		7approved; design refer to TUVEN60950-1	
	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		, EN55024, light industry level, criteria A	
Other	Warranty	arranty 5 Year Limited		
	MTBF	743.5Khrs min. MIL-HDBK-217F (25°C, 77°F)		
	Size 5.83 x 1.58 x 1.18 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.