ALLOY L = D° Specifications

Non-Dimmable Drivers

AL-98-04-12120, AL-98-04-24151



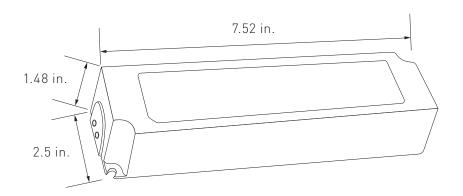
Alloy LED offers Non-Dimmable Drivers that supply reliable, efficient low voltage power to RGB and RGB-W color controllers (which have on-board dimming functionality) and for use with white tape light on an on/off switch. Although non-dimmable drivers are compatible with AC on/off switches, they are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



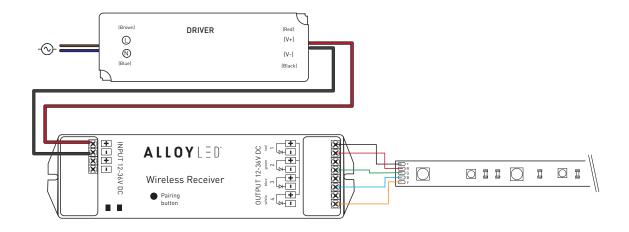
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TECHNICAL INFORMATION

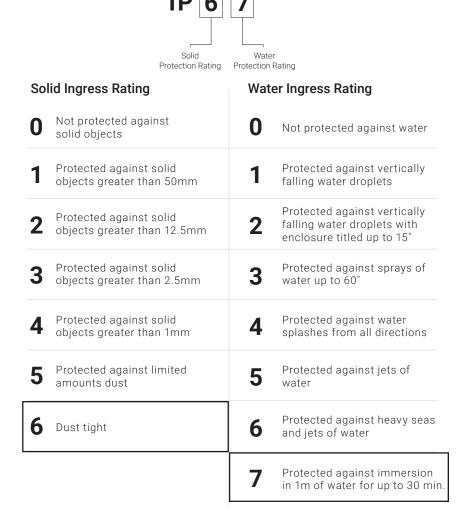
Item #		AL-98-04-12120	AL-98-04-24151	
Output	DC Voltage ¹	12V DC	24V DC	
	Rated Current	10A	6.3A	
	Current Adj. Range	0~10A	0~6.3A	
	Rated Power	120W	151.2W	
	Ripple & Noise (Max.) ²	200mVp-p	200mVp-p	
	Voltage Tolerance ³	±5.0%		
	Line Regulation	±1.0%		
	Load Regulation	±2.0%		
	Setup, Rise Time ⁶	1500ms, 50ms / 115VAC		
	Hold Up Time (Avg.)	10ms/115VAC at full load		
Input	Voltage Range ⁴	90V - 132V AC		
	Frequency Range	47~63HZ		
	Efficiency (Avg.)	>87% (12V DC)	>89% (24V DC)	
	AC Current (Avg.)	3.0A/115V AC		
	Inrush Current (Max.)	COLD START 75A(twidth=900µs measured at 50% lpeak) at 115V AC		
	Leakage Current	0.25mA / 120V AC		
Protection	Overload	110~150% rated output power		
		Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	Over Voltage	13.5~17V	27~35V	
		Protection type: Shut down o/p voltage, re-power on to recover		
Environment	Working Temp.	-25~+65°C, -13°F~149°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	UL8750, CSA C22.2 No 250. 13-12, UL879, CSA C22.2 No. 207-M89, IP67 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 (≤80% load), EN61000-3-3		
	EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A		
	LIVIC IIIIIIdility			
	Warranty	5 Year	Limited	
Other			Limited DBK-217F (25°C, 77°F)	

- 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.