

Ultra Slim Constant Voltage Dimmable LED Driver ELV/MLV/TRIAC ELECTRONIC DIM

CL-UDR-CV-60W-24V-DIM

Feature

- Output constant voltage
- ETL Listed
- Universal AC input: 120VAC
- High efficiency : up to 85%
- Load: 0-100%
- Protection: short circuit/over loading
- For dry, damp location
- Electronic Dimmable driver
- Dimming range: 5-100%
- Suitable for LED lighting and moving sign applications



Class 2



Technical Specs

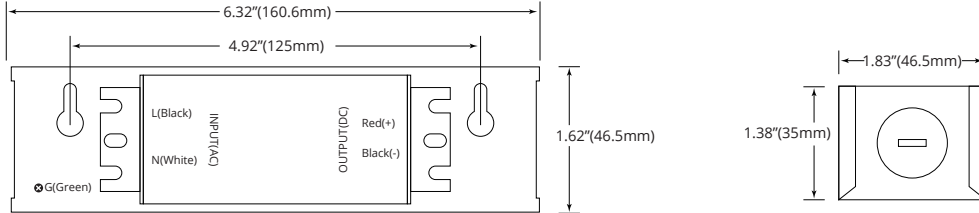
OUTPUT		
Output RMS Voltage	24Vdc	
Output RMS Voltage Range	22-24Vdc	
Output RMS Current	2.5A Max	
Output RMS Power	60W	
INPUT		
Input Voltage Range	120Vac	
Input Frequency Range	60HZ	
Input Current	0.7A@120VAC	
Dimmability	Electronic Low Voltage	
Surge Current (cold start)	20A, 50%, 1.6ms @120Vac	
Power Efficiency	85% @120Vac	
PF	0.9	
PROTECTION		
Short-Circuit Protection	Hiccup Mode, and recover automatically	
ENVIRONMENT		
Working Temperature	-20°C~+45°C	
Working Humidity	10%~90%RH	
Approved Enviroments Location	Suitable for Dry, Damp	
Storage Temperature	-40°C~+80°C	
Storage Humidity	10%~95%RH	
Vibration	10~500Hz, 1.0mm, 15 minutes(for X、Y、 Z each axis)	
Tcase	+90°C	
SAFETY&EMC		
Safety Standard	UL8750	
Dielectric Strength (Hi-Pot)	I/P-O/P	1.5KVAC
	I/P-Case	1.5KVAC
Insulation Resistance	100MΩ/500VDC/25°C/70%RH	
OTHERS		
MTBF	50Khrs. MIL-HDBK-217F(25°C)	
DIMMER COMPATIBILITY	Triac Dimmer LUTRON (PD-5NE, DVELV-300P, MAELV-600, P-PKG1W-WH-R-C)	
Minimum load available for Dimming (Use DVELV-300P)	5%	
Dimensions	160.6*46.5*35mm / 6.32"x1.83"x1.38"(L*W*H)	
Weight	0.4kg	
Outer Box Specifications	350*350*150mm / 13.78"x13.78"x5.9"(L*W*H) / 30pcs/ctn	
	Total 5 layer, each layer 6 pcs / G.W15kg / N.W11kg(1±10%)	

Remarks:

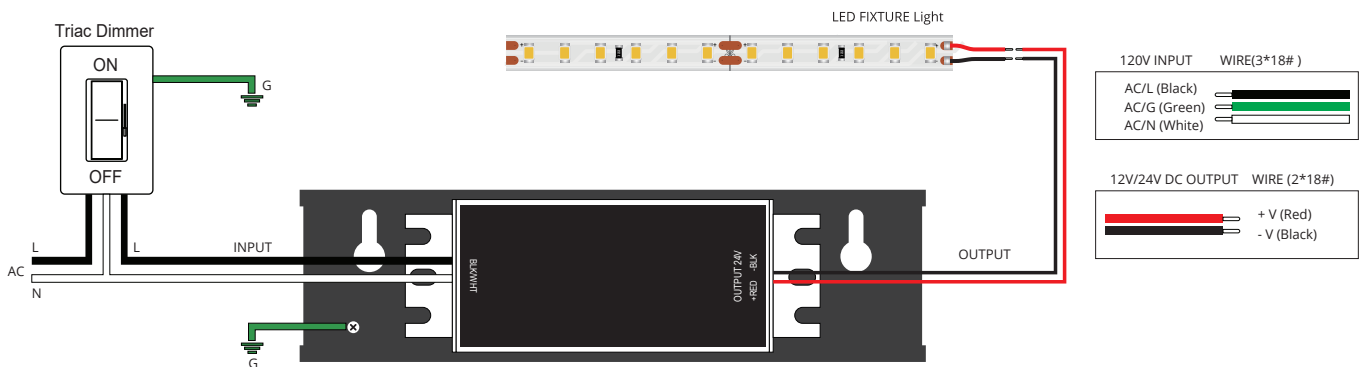
Test environment temperature : 25 ± 2°C;
Ripple and noise measurement methods: terminal to parallel 47uF electrolytic capacity and 0.1uF ceramic capacity, in 20 MHZ Bandwidth measurement.
"The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering)."

Profile Drawing

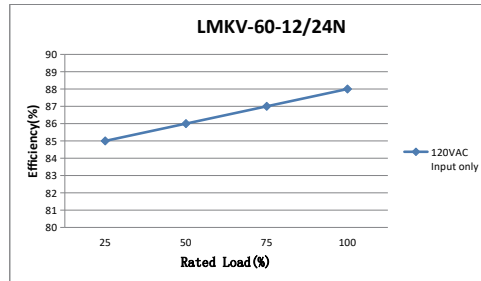
Unit:inch&mm



Wiring Diagram

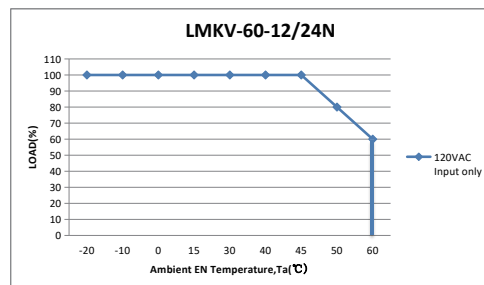


OUTPUT LOAD vs Efficiency



OUTPUT LOAD vs Temperature

The LMKV-60-24N series can be operated with cooling air temperatures between -20°C- 45°C by linearly de-rating the total maximum output power (or current) by 2.67%/°C from 45°C to 60°C (see figure).



Attentions

- Please ensure that the ground wire is properly grounded and ensure it does not come into contact with the neutral wire.
- Please make the power supply installed in a well-ventilated place, to ensure that the environment temperature is appropriate.
- Do not overload the power supply with multiple appliances.
- Please do not touch the metal shell surface to avoid high temperature scald.
- Do not install in the minefield or high pressure area.
- Do not attempt to repair privately. Please contact the supplier if you have any questions.

Tips

- To be installed by a certified electrician. Please read and follow the instructions carefully before installing. Ensure all contact points are connected firmly.
- Please pay attention to the using environment, and conduct regular check and maintenance to eliminate safety risks.