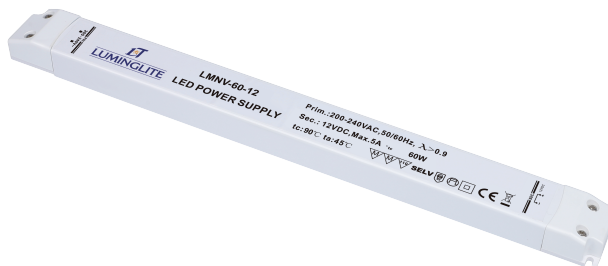


Super Thin Non Waterproof LED Driver(Constant Voltage)

LMNV-60-12 LMNV-60-24

Feature

- Independent power supply for constant voltage LED lamp.
- Super thin
- No flicker
- SELV output(<60V)
- Open circuit,short circuit,overload protection
- Faster star-up times≤1S
- No load power consumptions≤1.5W
- Efficiency:86%(AC230V full load)
- 3 years warranty
- Applied to LED advertising signs , cabinet



LMNV-60-12/24



Technical Specs

	LMNV-60-12	LMNV-60-24
OUTPUT		
Output Voltage	12Vdc	24Vdc
Output Voltage Range	12Vdc±5%Vdc	24Vdc±5%Vdc
Output Current	5A Max	2.5A Max
Output Power	60W	
Output Ripple & Noise	≤200mV	
INPUT		
Input Voltage Range	200Vac-240Vac	
Input Frequency Range	50 ~ 60HZ	
Input Current	≤0.38A(200-240Vac)	
Surge Current (cold start)	46A @230Vac	
Power Efficiency(typ)	86%	90%
PF	>0.9	
Leakage Current	<0.75mA/240Vac	
PROTECTION		
Over-Current Protection	Shut down the output when current load ≥ 110%,and recover automatically	
Short-Circuit Protection	Hiccup Mode and recover automatically	
Over-Voltage Protection	Shut down the output when non-load voltage≥ 13V, and recover automatically	Shut down the output when non-load voltage≥ 26V, and recover automatically
ENVIRONMENT		
Working Temperature	-30°C~+50°C (See below output load VS temperature profile)	
Working Humidity	10%~95%RH	
Approved Enviroment Location	For dry locations	
Storage Temperature	~35 C ~+65 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	Design refer to EN61347-1,EN61347-2-13,EN62493	
Dielectric Strength (Hi-Pot)	I/P-O/P	3KVAC/ 5mA/ 1min
	I/P-Case	1.5KVAC/ 5mA/ 1min
Insulation Resistance	100MΩ / 500VDC/ 1min	
EMC	Design refer to EN55015,EN61000-3-2,EN61000-3-3,EN61547	
EFT	2kv on AC power line	
Surge	4kv(L-N) 4kv(L-GND, N-GND) (IEC61000-4-5)	
OTHERS		
MTBF	120Khrs. MIL-HDBK-217F(25 C)	
Life time	30000 hours at TC ≤80 C maximum case hot tempeture	
Dimensions	320*30*18mm(L*W*H)	
Weight	0.16 kg	
Outer Box Specifications	330*305*180mm(L*W*H) /72pcs/ctn	
	Total 8 layer, each layer 9 pcs / G.W14kg/N.W13KG(1±10%)	

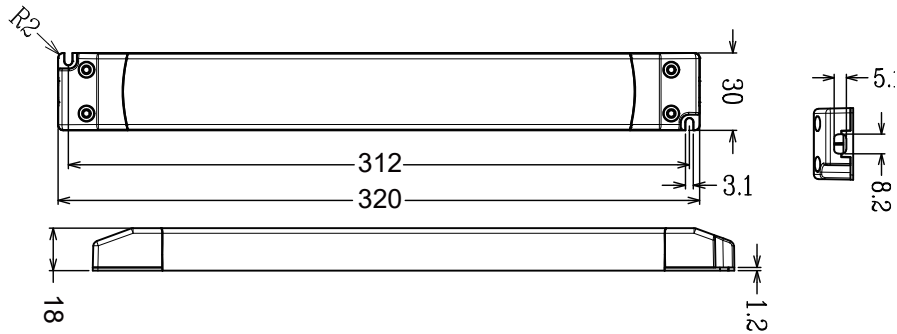
Remarks:

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 (hiccup flickering)."

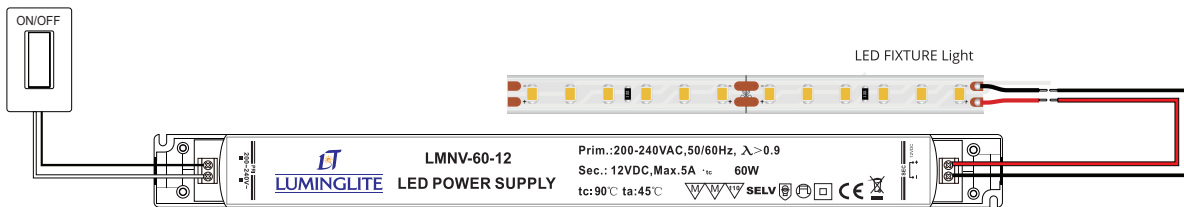
Super Thin Non Waterproof LED Driver(Constant Voltage)

Profile Drawing

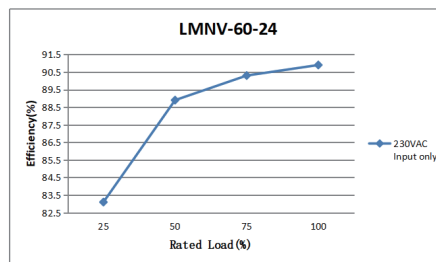
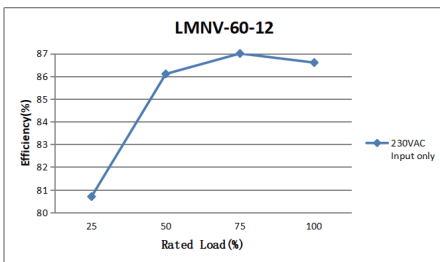
Unit:mm



Wiring Diagram

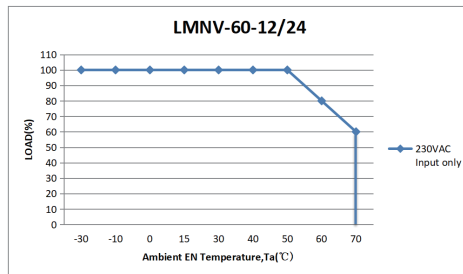


OUTPUT LOAD vs Efficiency (Input 230VAC)



OUTPUT LOAD vs Temperature

The LMNV-60 series can be operated with cooling air temperatures between -30°C- 50°C by linearly derating the total maximum output power (or current) by 2.0%/°C from 50°C to 70°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.