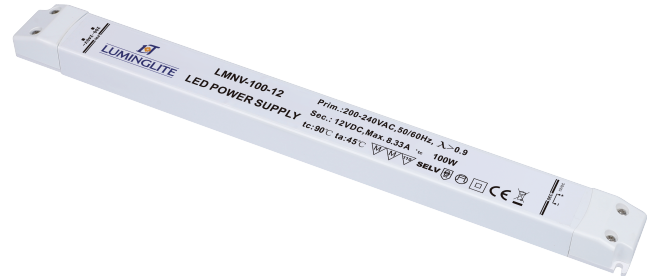


Super Thin Non Waterproof LED Driver(Constant Voltage)

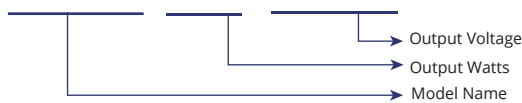
LMNV-100-12 LMNV-100-24

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:90%(AC230V full load)
- 3 years warranty
- Applied to LED advertising signs , cabinet



LMNV-100-12/24



Technical Specs

| | LMNV-100-12 | LMNV-100-24 |
|------------------------------|--|--|
| OUTPUT | | |
| Output Voltage | 12Vdc | 24Vdc |
| Output Voltage Range | 12Vdc±5%Vdc | 24Vdc±5%Vdc |
| Output Current | 8.3A Max | 4.16A Max |
| Output Power | 100W | |
| Output Ripple & Noise | ≤200mV | |
| INPUT | | |
| Input Voltage Range | 200Vac-240Vac | |
| Input Frequency Range | 50 ~ 60HZ | |
| Input Current | ≤0.6A(200-240Vac) | |
| Surge Current (cold start) | 46A @230Vac | |
| Power Efficiency(typ) | 89% | 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 | 0.173 kg | |
| Outer Box Specifications | 330*305*180mm(L*W*H) /72pcs/ctn | |
| | Total 8 layer, each layer 9 pcs / G.W13kg/N.W14.2KG(1±10%) | |

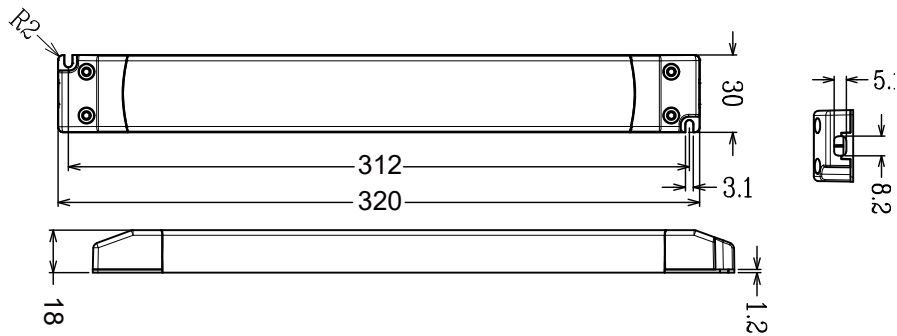
Remarks:

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)."

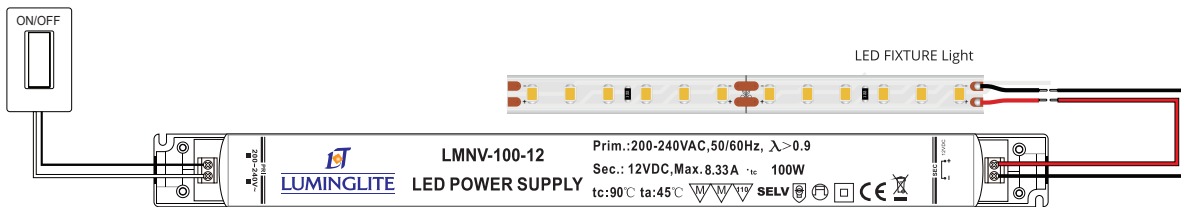
Super Thin Non Waterproof LED Driver(Constant Voltage)

Profile Drawing

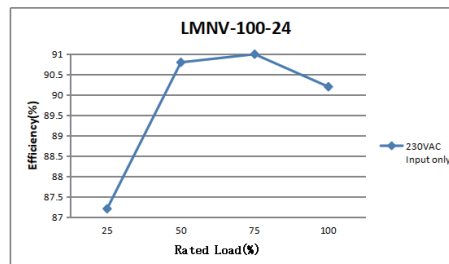
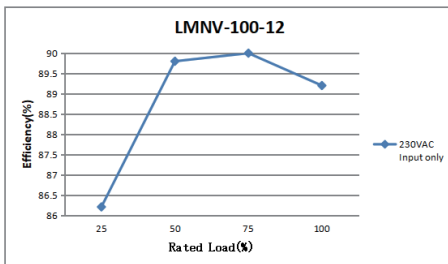
Unit:mm



Wiring Diagram

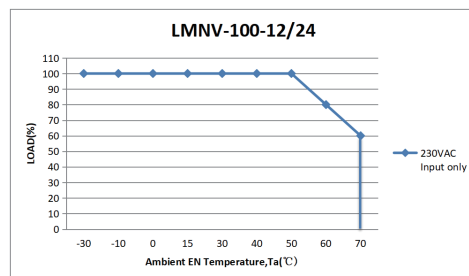


OUTPUT LOAD vs Efficiency (Input 230VAC)



OUTPUT LOAD vs Temperature

The LMNV-100 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.