Super Thin Non Waterproof LED Driver(Constant Voltage)



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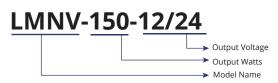
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LMNV-150-12 LMNV-150-24

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 time≤1S
- No load power consumption≤1.5W
- Efficiency:90%(AC230V full load)
- 3 years warranty
- Applied to LED advertising signs , cabinet







Technical Specs

Output Voltage Range 12Vdc 24Vdc Output Voltage Range 12Vdc 45Wdc 24Vdc 5Wdc Output Power 155 Max 6.25 Max Output Rower 150W			LMNV-150-12	LMNV-150-24	
Output Votrage Range 12/46.65Mydx 24/46.55Mydc Output Power 150W Output Ripple & Noise 2200mV INPUT <td and="" of="" power="" rows="" td="" the="" the<=""><td>OUTPUT</td><td></td><td></td><td></td></td>	<td>OUTPUT</td> <td></td> <td></td> <td></td>	OUTPUT			
Output Current 12.5A Max 6.25A Max Output Prover 150W Output Prover \$200m* INPUT ************************************	Output Voltage		12Vdc	24Vdc	
0.00 put Prover 1.50W 0.00 put Ripple & Noise 2.000 mV 1.00 put Voitage Range 2.000 vc 2.40 Voic Input Current 5.0 -6.04 Z Input Current (cold start) 45.0 230 Vac 2.40 Voic 2.40 Voic 2.40 Voic 3.40	Output Voltage Range		12Vdc±5%Vdc	24Vdc±5%Vdc	
NPUT	Output Current		12.5A Max	6.25A Max	
Input Voltage Range	Output Power		150W		
Input Voltage Range			≤200mV		
Input Prequency Range	INPUT				
Input Current S0.83A(200-240Vac) Surge Current (cold start) 46A @230Vac Surge Current (cold start) 46A @230Vac S88% 90% 90% S88% 90%	Input Voltage Range		200Vac-240Vac		
Surge Current (cold start) 46A @230Vac Power Efficiency(typ) 88% 90% PF >0.9 Leakage Current <0.75mA/240Vac	Input Frequency Range		50~60HZ		
Power Efficiency(typ) S8% 90%	Input Current		≤0.83A(200-240Vac)		
PF	Surge Current (cold start)		46A @230Vac		
Leakage Current	Power Efficiency(typ)		88%	90%	
PROTECTION Over-Current Protection Shut down the output when current load ≥ 110%, and recover automatically Over-Voltage Protection Shut down the output when non-load voltages 13V, and recover automatically Over-Voltage Protection Shut down the output when non-load voltages 13V, and recover automatically Service Storage Temperature -30°C -+50°C (See below output load V5 temperature profile) Working Humidity 10%-95%RH Approved Environment Location For dry locations Storage Temperature -35°C +55°C Storage Temperature 10%-95%RH Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase 90°C SAFETY&EMC Safety Standard Dielectric Strength (Hi-Pot) IP-POP 3KNAC/5mA/1min Insulation Resistance 100MD / 500VDC/1min EMC Design refer to EMS5015,EM61000-3-2,EM61000-3-3,EM61547 EFT 2kv on AC power-line Surge 4kvt_N.9 kkvt_GMD, N-GND) (IEC61000-4-5) OTHERS MTBF 120khrs. MIL-HDBK-217F(25 C) Life time 30000 hours at TC s80 C maximum case hot t	PF		>0.9		
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≥ 13V, and recover automatically Shut down the output when non-load voltage≥ 26V, and recover automatically Working Properature Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature -35 C -465 C Storage Punnidity 10% -95%RH Vibration 10-500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis) Tcase +90°C SAFETY&EMC Safety Standard Dielectric Strength (Hi-Pot) IP-C/P 31KYAC/5 mM 1 min Insulation Resistance 100MC / 500VOC 1 min EMC Design refer to ENS5015,EN61000-3-2,EN61000-3-3,EN61547 EFT 2kv on AC power line Surge 4kvL-N / AkyL-GND, N-GND) (IEC61000-4-5) OTHERS MTBF 1 20Khrs. MIL-HDBK-21	Leakage Current		<0.75mA/240Vac		
Short-Circuit Protection Hiccup Mode and recover automatically Over-Voltage Protection Shut down the output when non-load voltages 13V, and recover automatically ENVIRONMENT Working Temperature -30°C-+50°C (See below output load VS temperature profile) Working Humidity 108-95%RH Approved Environment Location For dry locations Storage Temperature -35 C-+65 C Storage Humidity 106-95%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 BXVAC/5 5mA/ Imin Insulation Resistance Design refer to EN55015,EN61000-3-2,EN61000-3-3,EN61547 EFF Design refer to EN55015,EN61000-3-2,EN61000-3-3,EN61547 EFF Design refer to EN55015,EN61000-3-2,EN61000-3-3,EN61547 Surge	PROTECTION				
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### ENVIRONMENT Morking Temperature	Short-Circuit Protection		·		
Working Temperature -30°C +50°C (see below output load V5 temperature profile) Working Humidity 10% -95%RH Approved Enviroment Location For dry locations Storage Temperature -35 C -465 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 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(IN) 4kv(IGND, 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 345*30*22mm(I.*W*H) / 48pcs/ctn Weight 0.3 kg Outer Box Specifications 380*270*165mm(I.*W*H) / 48pcs/ctn Total 6 layer, each layer 8 pcs / G.W15.5kg/N.W14.5KG(1±10%)	Over-Voltage Protection				
Working Humidity 10%-95%RH Approved Enviroment Location For dry locations Storage Temperature -35 C -465 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 Insulation Resistance 100MQ / 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 345*30*22mm(L*W*H) Weight 0.3 kg Outer Box Specifications 380*270*165mm(L*W*H) /48pcs/ctn Total 6 layer, each layer 8 pcs / G.W15.5kg/N.W14.5kG(1±10%)	ENVIRONMENT				
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Storage Temperature	Working Humidity		10%~95%RH		
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Vibration 10–500Hz, 1.0mm, 15 minutes(for X. Y. Z each axis)	Storage Temperature		~35°C~+65°C		
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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 345*30*22mm(L*W*H) Weight 0.3 kg Outer Box Specifications 380*270*165mm(L*W*H) /48pcs/ctn Total 6 layer, each layer 8 pcs / G.W15.5kg/N.W14.5KG(1±10%)		I/P-Case	1.5KVAC/ 5mA/ 1min		
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 345*30*22mm(L*W*H) Weight 0.3 kg Outer Box Specifications 380*270*165mm(L*W*H) /48pcs/ctn Total 6 layer, each layer 8 pcs / G.W15.5kg/N.W14.5KG(1±10%)	Insulation Resistance		100MΩ / 500VDC/ 1min		
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	Outer Box Specifications		, , , ,		
			Total 6 layer, each layer 8 pcs / G.W15.5kg/N.W14.5KG(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)."

Super Thin Non Waterproof LED Driver(Constant Voltage)

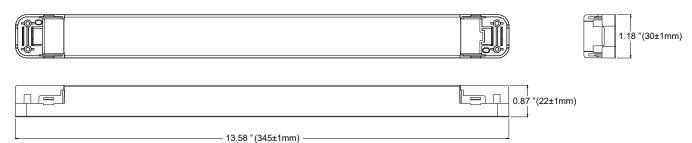


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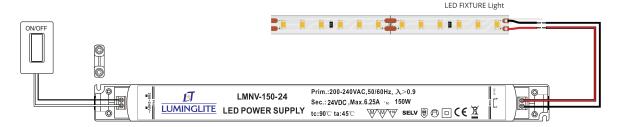
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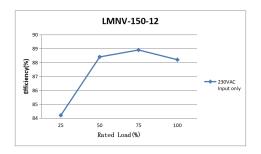
Profile Drawing

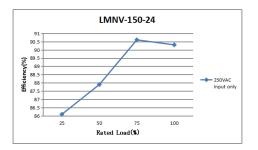


Wiring Diagram



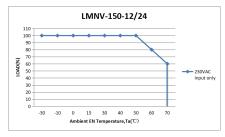
OUTPUT LOAD vs Efficiency (Input 230VAC)





OUTPUT LOAD vs Temperature

The LMNV-150 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.
- Po 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.