

LED Driver (constant Voltage)

- Ultra-thin, ultra-small. Housing is made from V0 flame retardant PC materials.
- Clamshell style case and wire clamping structure for convenient wire connection.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, overload, short circuit protection and automatic recovery.
- Suitable for Class II/III indoor light fixtures.
- Indoor office lighting, decorative lighting and commercial lighting.
- 5-year warranty (Rubycon capacitor).

Flicker-Free
IEEE 1789





The certification icon represents on-going certification applications only, and final certification qualification is subject to actual products.

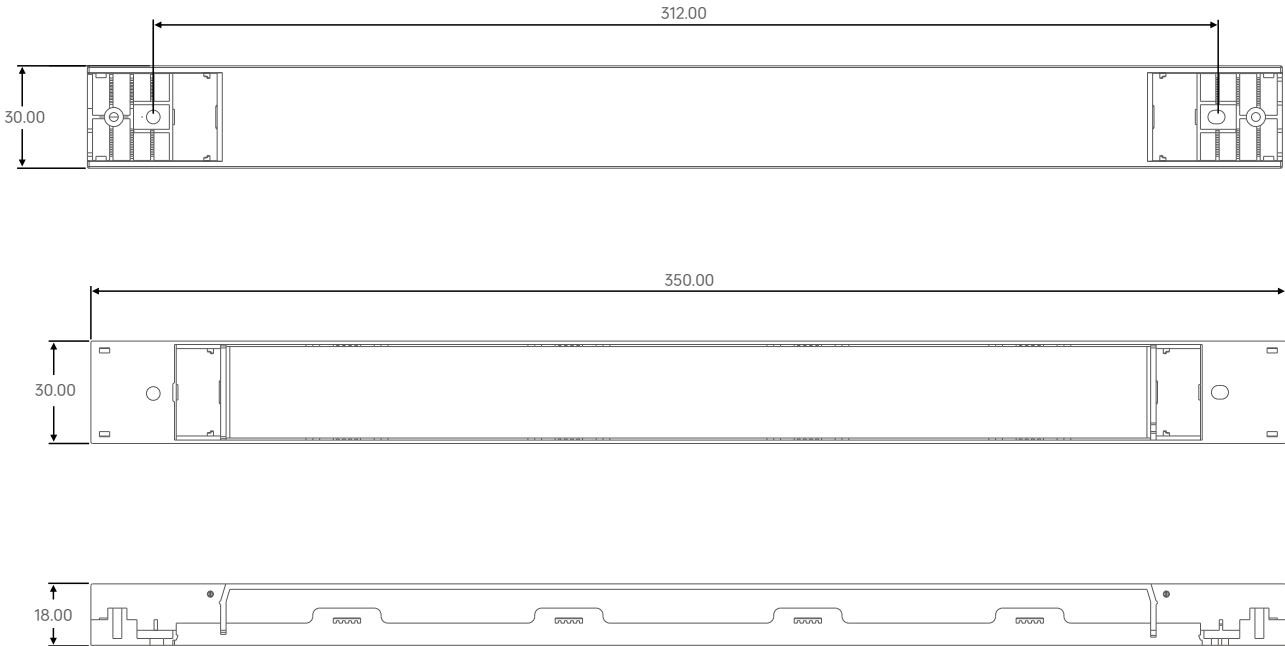


Technical Specs

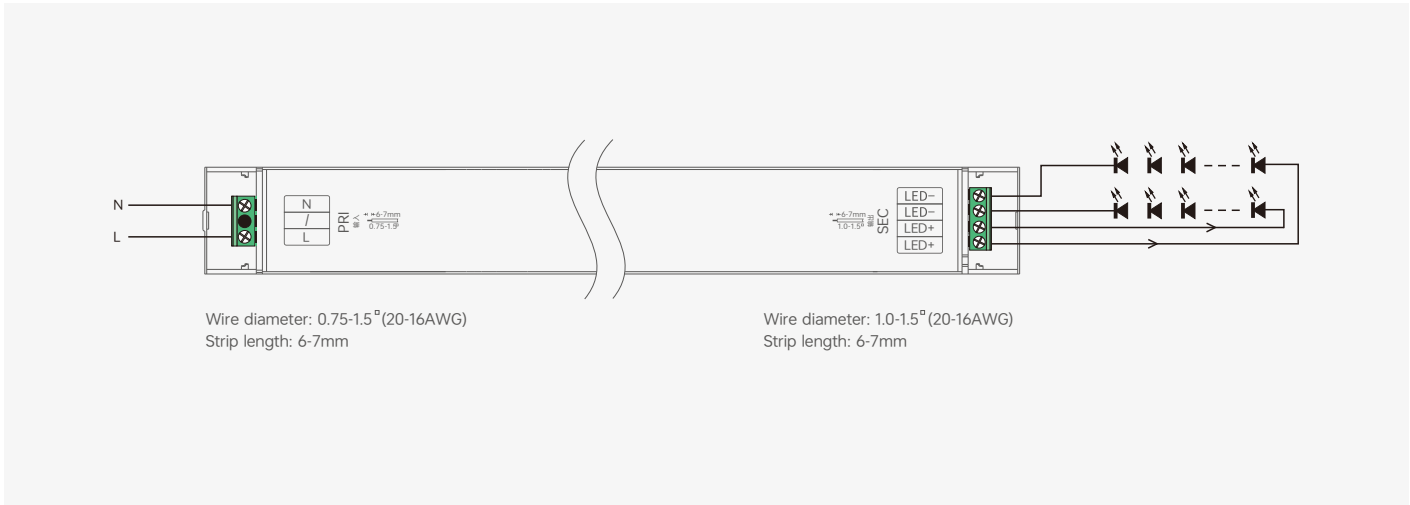
Model		SN-150-24-G1N			
Features	Output Type	Constant Voltage			
	Output Feature	Isolation			
	Protection Grade	IP20			
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)			
OUTPUT	Output Voltage	24Vdc			
	Output Voltage Range	24Vdc±0.5Vdc			
	Output Current	Max. 6.25A			
	Output Power	Max. 150W			
	Output Power Range	0-150W			
	Dimming Range	0~100%, down to 0.1%			
	Overload Power Limitation	≥102%			
	Ripple & Noise	Ripple≤900mV, Noise≤900mV			
INPUT	DC Voltage Range	220-240Vdc			
	Input Voltage	220-240Vac			
	Frequency	0/50/60Hz			
	Input Current	Max. 0.75A/230Vac			
	Power Factor	PF>0.97 (at full load)			
	THD	THD<10% (at full load)			
	Maximum input power	Max. 162W			
	Efficiency (Typ.)	93%			
	Inrush Current	Cold start 45A(Test twidth=350us tested under 50% Ipeak)/230Vac			
	Anti Surge	L-N: 2KV			
Leakage Current	Max. 0.5mA				
ENVIRONMENT	Working Temperature	ta: -20 ~ 45°C tc: 90°C			
	Working Humidity	20 ~ 95%RH, non-condensing			
	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH			
	Temperature Coefficient	±0.03%/°C(0-50°C)			
	Vibration	10-500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively			
PROTECTION	Overload Protection	Shut down the output when current load≥102%, auto recovers.			
	Overheat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers			
	Overvoltage protection	Shut down the output when non-load voltage ≥30V, re-power on to recover after fault condition is removed			
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.			
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac			
	Insulation Resistance	I/P-O/P: 1 Insulation Resistance 100MQ/500VDC/25°C/70%RH			
	Safety Standards	CCC	China	GB19510.1, GB19510.14	
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493	
		CB	CB Member States	IEC61347-1, IEC61347-2-13	
		CE	European Union	EN61347-1, EN61347-2-13, EN62384	
		KC	Korea	KC61347-1, KC61347-2-13	
		EAC	Russia	IEC61347-1, IEC61347-2-13	
		RCM	Australia	AS 61347-1, AS 61347-2-13	
		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384	
		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493	
	BIS	India	IS 15885 (PART 2/SEC 13)		
	EMC Emission	CCC	China	GB/T17743, GB17625.1	
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547	
		KC	Korea	KN15, KN61547	
		EAC	Russia	IEC62493, IEC61547, EH55015	
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547	
		UKCA	Britain	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547			
ErP	Power Consumption	Standby power consumption	<0.5W		
		No-load power consumption	When the lamp is not connected)		
	Flicker/Stroboscopic Effect	IEEE 1789	Meet IEEE 1789 standard/High frequency exemption level		
		CIE SVM	Pst LM≤1.0, SVM≤0.4		
OTHERS	DF	Phase factor	DF≥0.9		
	Weight(N.W.)	266g±10g			
	Dimensions	350×30×18mm(L×W×H)			

Product Size

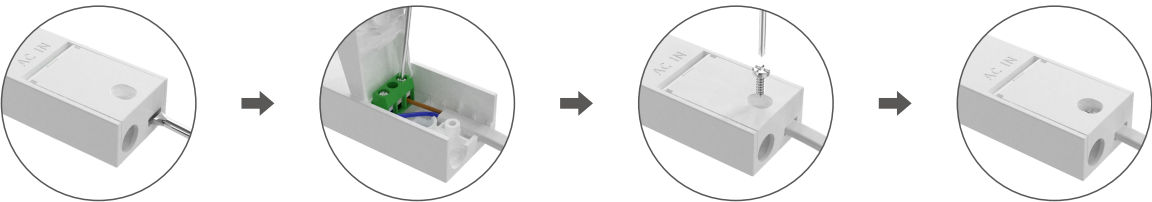
Unit: mm



Wiring Diagram



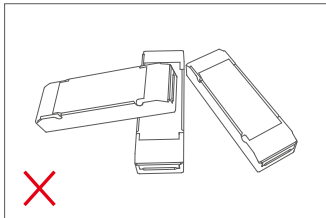
Application Diagram of Protective Cover



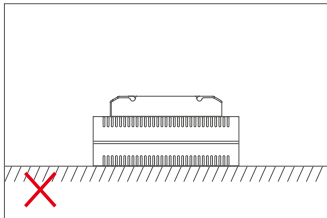
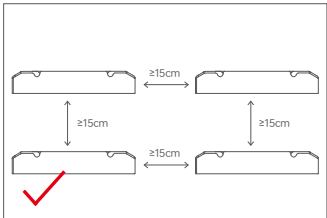
1.Put the head of the screwdriver at the cable entry to pry up the protective cover, then connect the wires as the wiring diagram shown

2. After closing the protective cover, tighten the protective cover with the PA screws

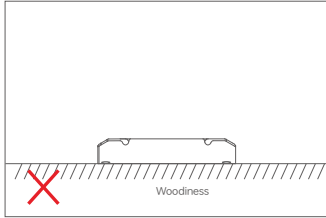
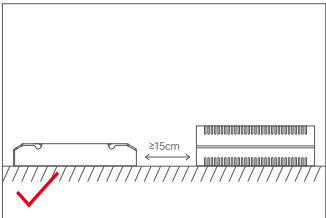
Installation Precautions



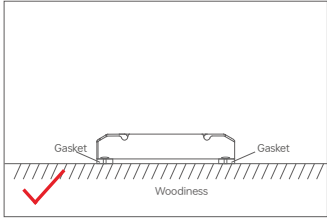
Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.



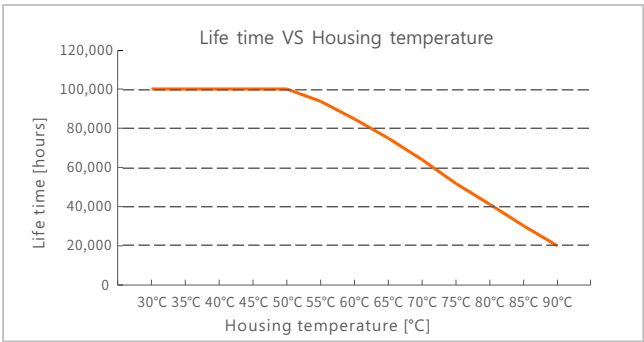
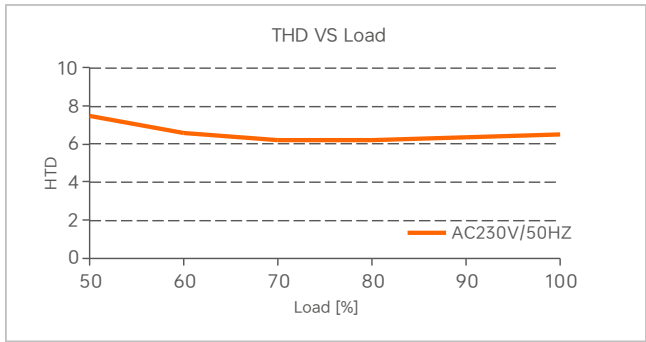
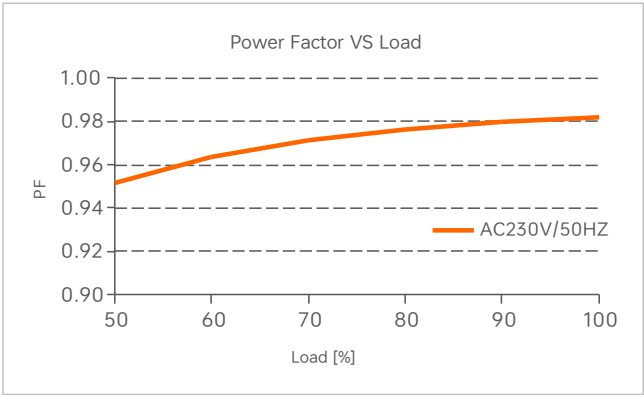
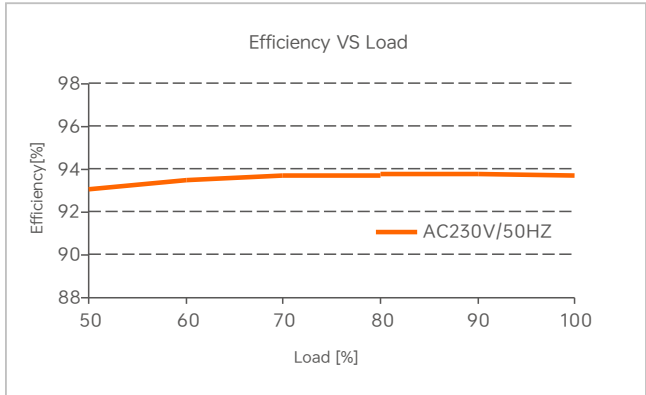
Do not place the product on top of a power supply. The distance between the product and the power supply should be $\geq 15\text{ cm}$ so as not to affect heat dissipation and the lifespan of the product.



Do not fix the product tightly against the wooden board with screws. Please add a washer $\geq 7\text{ mm}$ thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



Relationship Diagrams



Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- Products shall be installed by qualified professionals.
 - LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
 - Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
 - Please check if the working voltage used complies with the parameter requirements of products.
 - The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
 - Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
 - If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- ✱ This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.