

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.
- Change max.brightness, power-on fading time, PWM frequency and other parameters thorough a NFC-enabled phone and driver data can be synced between drivers and the APP.
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class I / II / III indoor light fixtures.
- Suitable for indoor LED strip lights and magnetic track lights.
- 5-year warranty (Rubycon capacitor).



Technical Specs

Model		SN-150-24-G1NF				
	Output Type	Constan	t Voltage			
Features	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. 6.2				
	Output Power	Max. 15	DW			
	Output Power Range	0-150W				
	Dimming Range	0~100%, down to 0.1%				
	Overload Power Limitation	≥102%				
	Ripple & Noise	Ripple<900mV, Noise<900mV				
	PWM frequency	NFC set up 300-22000Hz				
	DC Voltage Range	220-240Vdc				
	Input Voltage	220-240Vac				
	Frequency	0/50/60Hz				
	Input Current	Max. 0.75A/230Vac				
INPUT	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% lpeak)/230Vac				
	Anti Surge	L-N: 2K				
	Leakage Current	Max. 0.5	imA			
	Working Temperature	ta: -20 -	- 45°C tc: 90°C			
	Working Humidity		6RH, non-condensing			
ENVIRONMENT	Storage Temperature/Humidity		-40 ~ 80°C/10~95%RH			
	Temperature Coefficient		±0.03%/°C(0-45°C)			
	Vibration	10-500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively				
	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				
PROTECTION	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.				
	Withstand Voltage		I/P-0/P: 3750Vac			
	Insulation Resistance	I/P-0/P:100MΩ/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		
CAFETY		RCM	Australia	AS 61347-1, AS 61347-2-13		
SAFETY &		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384		
EMC		UKCA	Britain	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493		
		BIS	India	IS 15885 (PART 2/SEC 13)		
		CCC	China	GB/T17743, GB17625.1		
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
		KC	Korea			
		EAC	Russia	KN15, KN61547 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					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN6				
	Power Consumption	Standby power consumption		<0.5W (When it is powered on after a command)		
		No-load power consumption		<0.5W (When the lamp is not connected)		
ErP	Flicker/Stroboscopic Effect	IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level		
		CIE SVM		Pst LM≤1.0, SVM≤0.4		
	DF	Phase factor		DF≥0.9		
	1 10/-:	266g±10g				
OTHERS	Weight(N.W.) Dimensions)×18mm(L×W×H)			

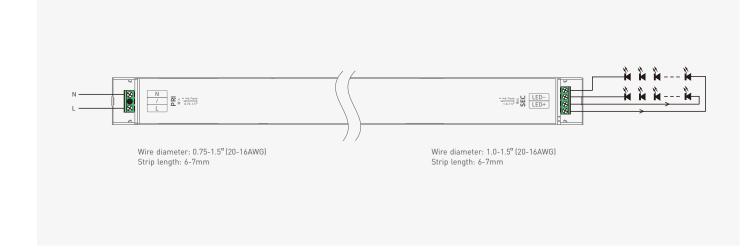


Product Size

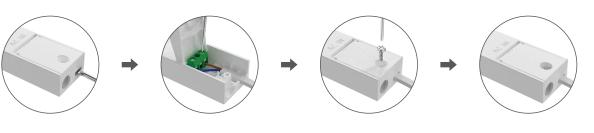
Unit: mm



Wiring Diagram



Application Diagram of Protective Cover

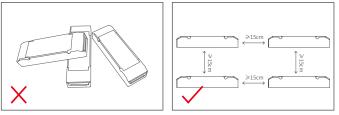


1.Put the head of the screwdriver at the cable entry to pry up the protective cover, then connect the wires as the wiring diagram shown

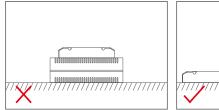
2. After closing the protective cover, tighten the protective cover with the PA screws

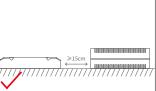


Installation Precautions



Please do not stack the products. The distance between two products should be >15cm so as not to affect heat dissipation or the lifetime of the products.





Please not place the products on power supplies. The distance between the product and the power supplies should be >15cm so as not to affect heat dissipation or shorten the lifetime of the products.

Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.

Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).



* Before you start to set driver parameters, please power off the driver first.

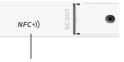
Read/Write LED driver

Read the driver information with your phone and modify parameters depending on your need. The modified parameters can be directly written to the driver.

1. Read LED driver

On the APP home page, click [Read/Write LED driver], then keep your phone close to the NFC logo on the driver to read the driver parameters.







2. Edit parameters

Click[Parameters] to edit max. brightness, power-on fading time, PWM frequency, and other parameters.

3. Write to the driver

After parameter settings are completed, click [Write] at the top right and keep your phone close to the NFC logo on the driver. Then the parameters will be successfully modified and written to the driver.





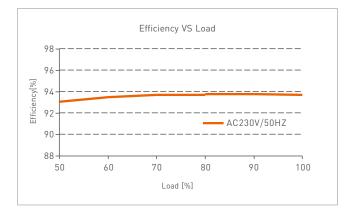
17:43		al 🕈 🗉
←	Parameters Settings	Write
SN-15	0-24-G1NF ≠ Charge	model
Parame	ters	
Max Leve	I.	100%
• -		••
Power-or	Fading Time	0.0S
PWM Fre	quency	Default (
Reset	all parameters to factory s	settings

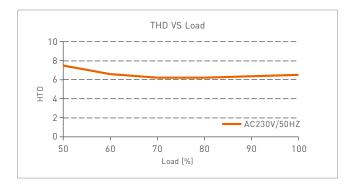


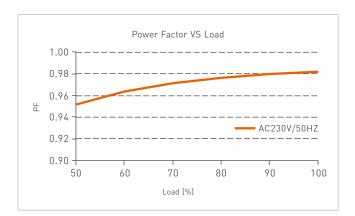


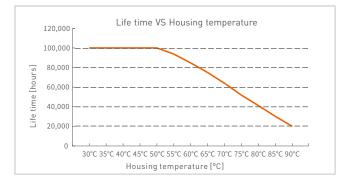
Exemption assessment

Relationship Diagrams









Flicker Test Form

	IEEE 1789					
Limit of Modulation in low risk area						
	limit (%)					
f ≤ 8Hz	0.2					
8Hz < <i>f</i> ≤ 90Hz	0.025 × f					
90Hz < <i>f</i> ≤ 1250Hz	0.08 × f					
f > 1250Hz	Exemption assessment					
Limit of Modulation in no effect area						
	limit (%)					
<i>f</i> ≤ 10Hz	0.1					
10Hz < f ≤ 90Hz	0.01 × f					
90Hz < <i>f</i> ≼ 3125Hz	(0.08/2.5) × f					
f > 3125Hz	Exemption assessment (High frequency exemption)					

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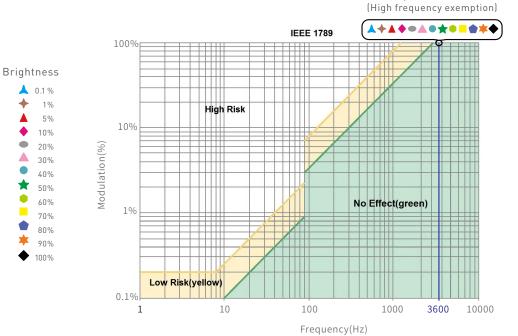
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Transportation and Storage

LTECH

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.



Update Log

Version	Updated Time	Update Content	Updated by
AO	2023.12.20	Original version	Pan YeXian