

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.
- Through the NFC mobile APP, you can change the maximum brightness value, power transition time, PWM frequency and other parameters.
- Support corridor dimming function
- With soft start lighting function, let the human eye more comfortable vision
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, overload, short circuit protection and automatic recovery.
- Suitable for Class I / 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.

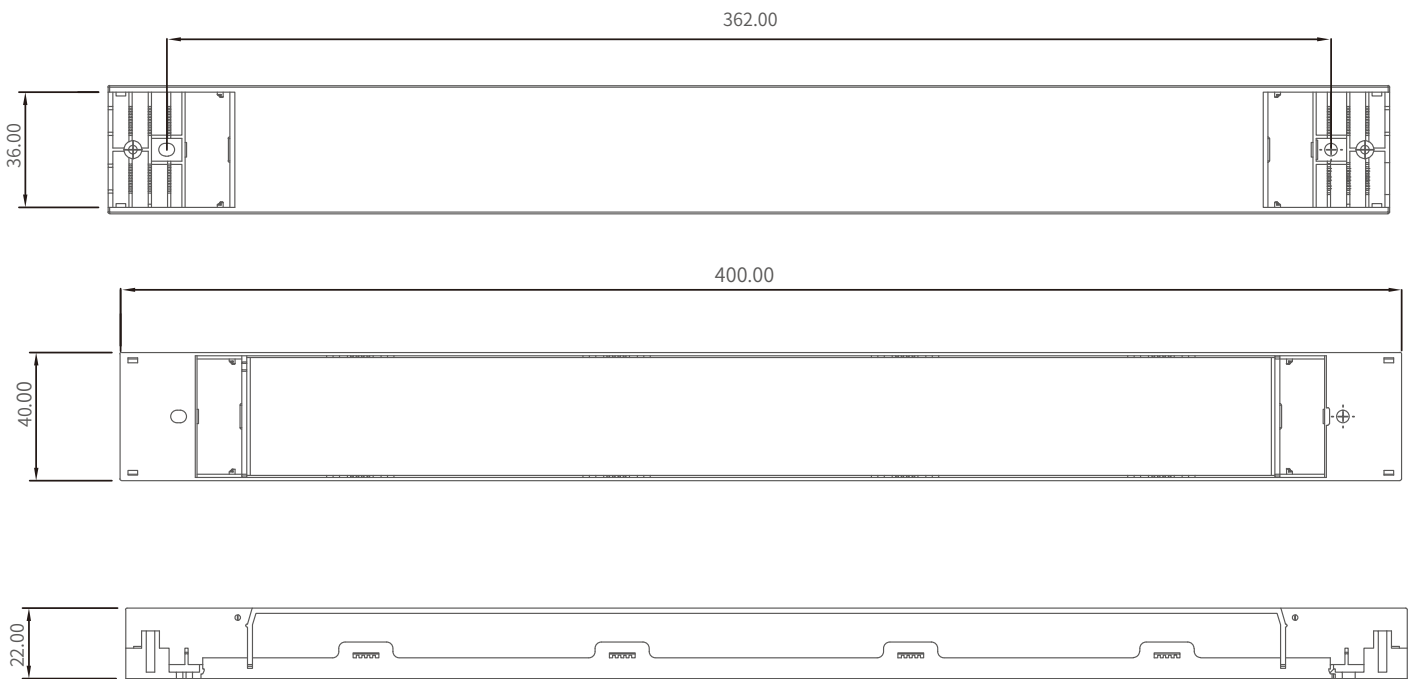


Technical Specs

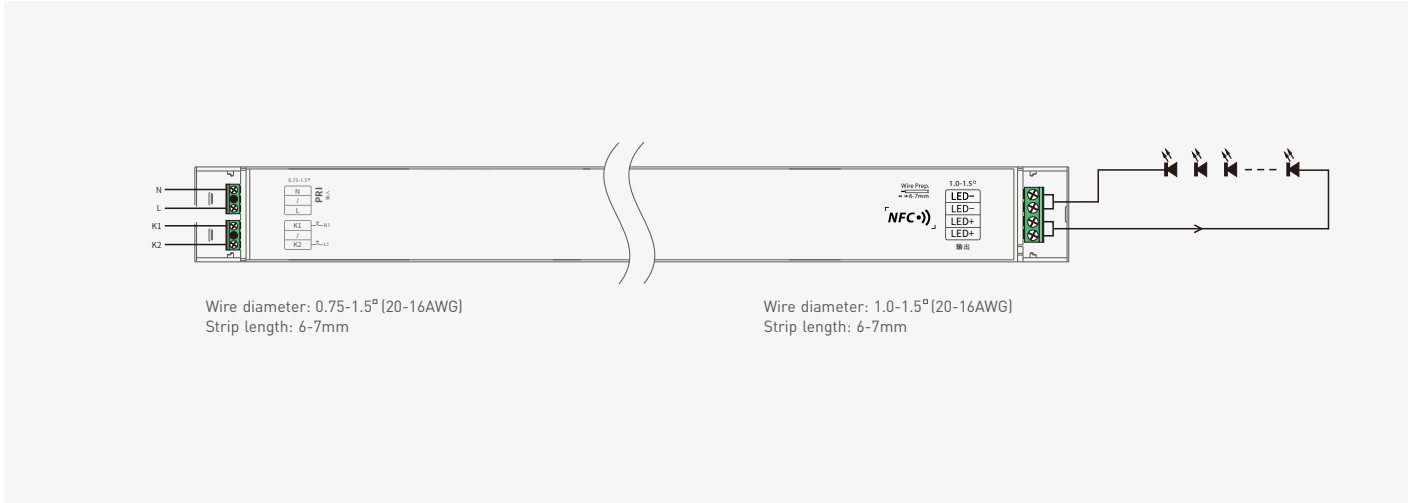
Model	SN-240-24-G1NF			
Features	Output Type	Constant Voltage		
	Output Feature	Isolation		
	Protection Grade	IP20		
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)		
OUTPUT	Output Voltage	24Vdc		
	Output Voltage Range	24Vdc±0.5Vdc		
	Output Current	Max. 10A		
	Output Power	Max. 240W		
	Output Power Range	0-240W		
	Overload Power Limitation	≥102%		
	Ripple & Noise	Ripple≤900mV, Noise≤900mV		
	PWM frequency	The NFC Settings range from 300 Hz to 2200 Hz		
INPUT	DC Voltage Range	220-240Vdc		
	Input Voltage	220-240Vac		
	Frequency	0/50/60Hz		
	Input Current	Max. 1.2A/230Vac		
	Power Factor	PF>0.97 (at full load)		
	THD	THD<8% (at full load)		
	Maximum input power	Max. 256W		
	Efficiency (Typ.)	93.5%		
	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(0-45°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 ≥28V, 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: 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
		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	No-load power consumption	<0.5W (When the lamp is not connected)	
		IEEE 1789		
	Flicker/Stroboscopic Effect	Network standby power consumption	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.)	450g±10g		
	Dimensions	400×40×22mm(L×W×H)		

Product Size

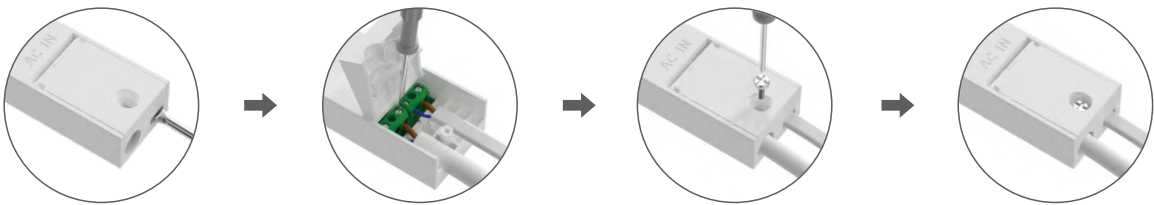
Unit: mm



Wiring Diagram

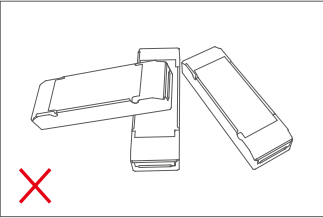


Application Diagram of Protective Cover

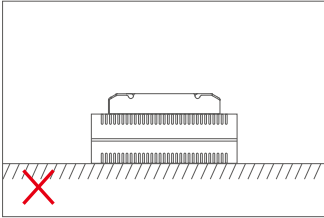
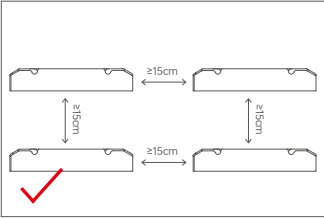


- 1.Put the head of the screwdriver at the cable entry to pry up the protective cover, then connect the wires as the wiring diagram shown
2. After closing the protective cover, tighten the protective cover with the PA screws

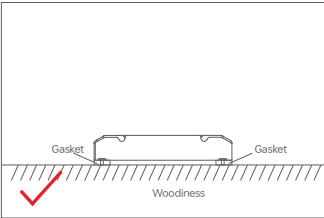
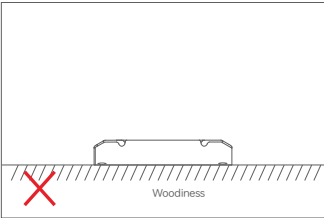
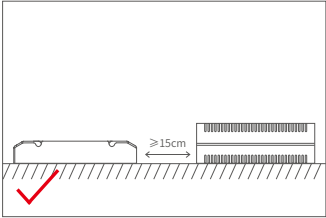
Installation Precautions



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



Do not fix the product screws tightly against the wooden board. Instead, add a washer with a thickness of $\geq 7\text{mm}$ under the fixing screws. Leaving some gaps can effectively dissipate heat, preventing any impact on the product's heat dissipation performance and service life.

Use with NFC Lighting APP

Scan the QR code below with your mobile phone and install the APP as prompted. Due to performance requirements, phone model Apple: iPhone 8 or later and operating system iOS13 or later. Android: NFC enabled models]



* When setting drive parameters, you must perform this operation when the drive is powered off.

Read/write smart power supply

Using the mobile phone, the drive information is read through NFC, and after setting parameters according to the requirements, the drive can be directly written.

1. Read the drive

Click [Read/write smart power Supply] on the "Home page" of the APP, place the sensing area of the phone near the NFC identification point of the drive, and read the parameters of the drive.



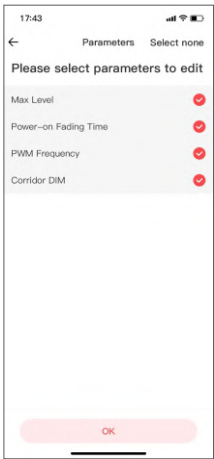
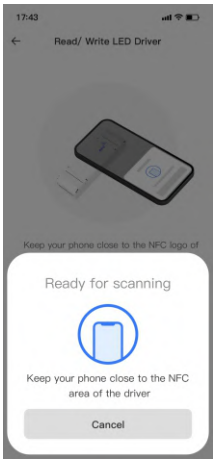
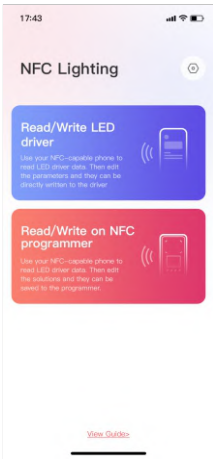
Drive NFC identification point

2. Edit parameters

Click [Parameter Management] to edit the max level,power-on fading time,PWM frequency and corridor DIM.

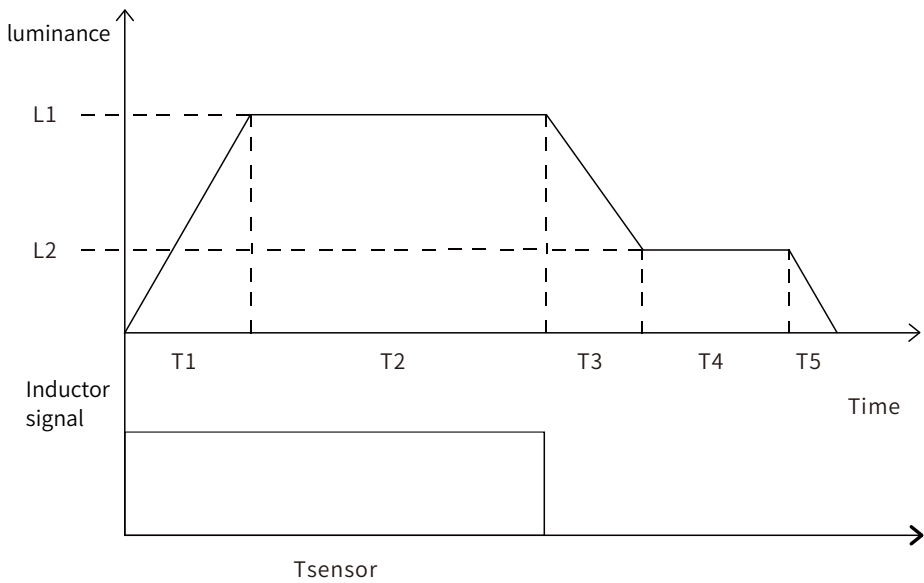
3. Write data to the drive

After parameter setting is complete, click [Write] in the upper right corner, and place the sensing area of the phone near the NFC identifier of the drive, and then write the parameters to the drive successfully.



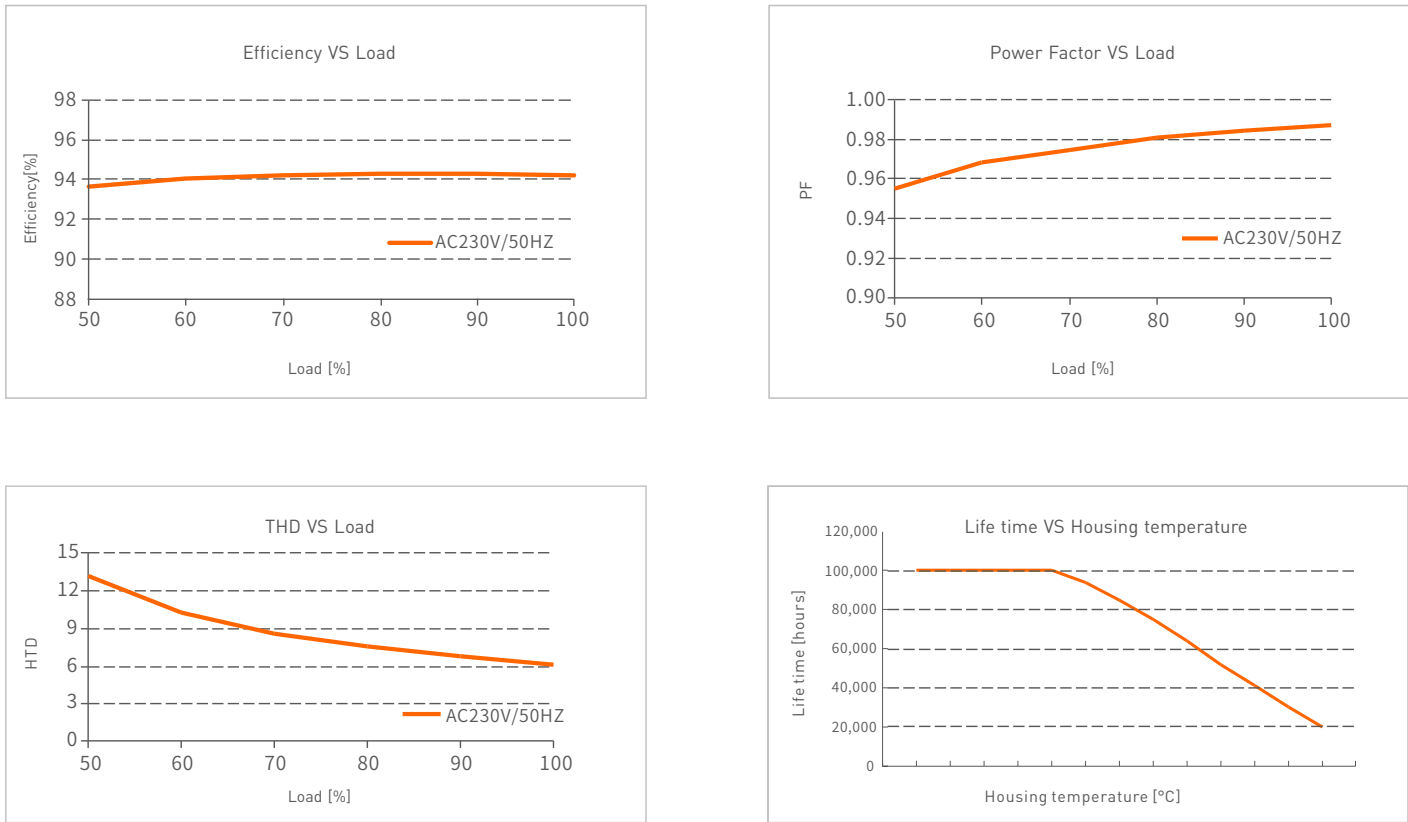
Corridor light function working process

Using the mobile phone, the drive information is read through NFC, and after setting parameters according to the requirements, the drive can be directly written.

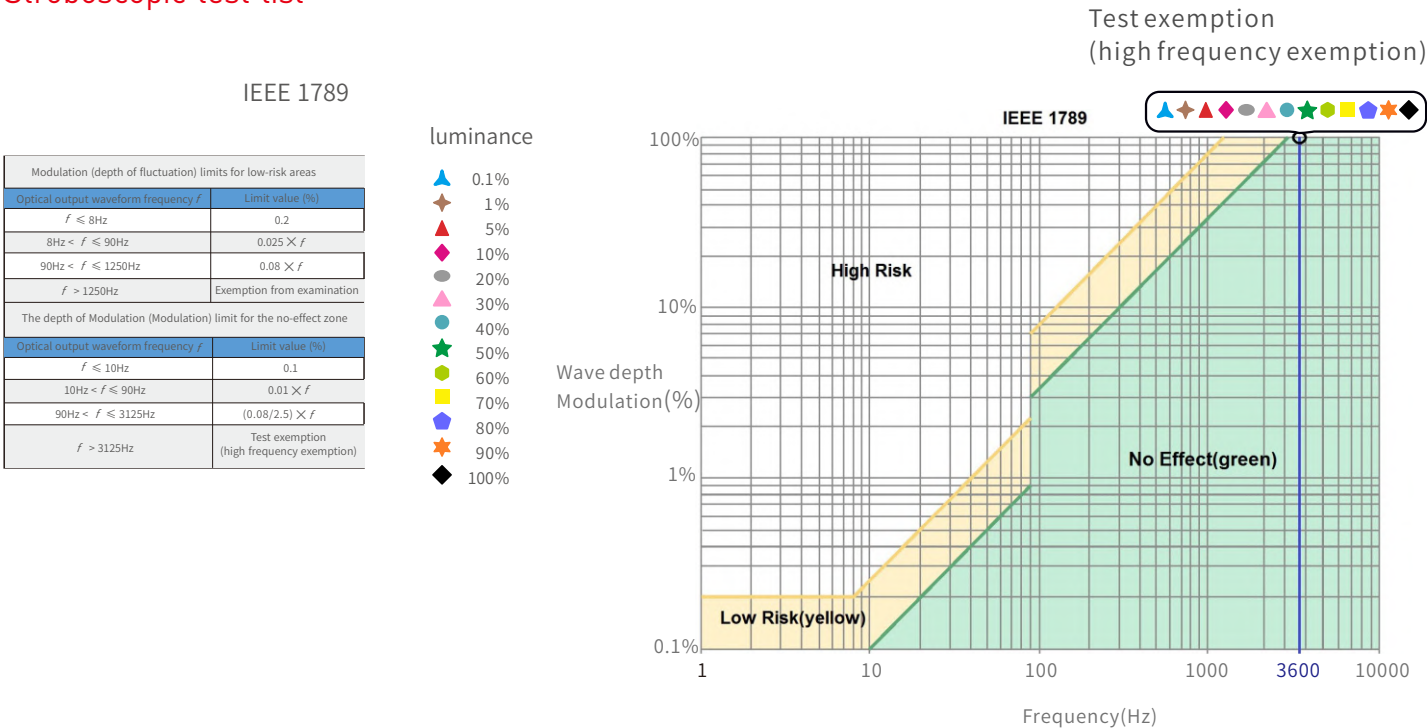


Symbol	Name	Default value	Configurable range
T1	Turn on gradient time	3s	0-99s
T1+T2	Induction (brightness) retention time	Sensor determined	Sensor determined
T3	Fade out induction time	5s	-
T4	Unattended time	30s	0-1800s or permanent
T5	Fade out the closing time	5s	-
L1	Starting brightness	100%	25 - 100%
L2	Unattended brightness	50% (50% of L1)	10 - 50%

Relationship Diagrams



Stroboscopic test list



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

- Product installation and commissioning should be done by a qualified professional.
 - 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
A0	2023.12.19	Original version	Pan YeXian