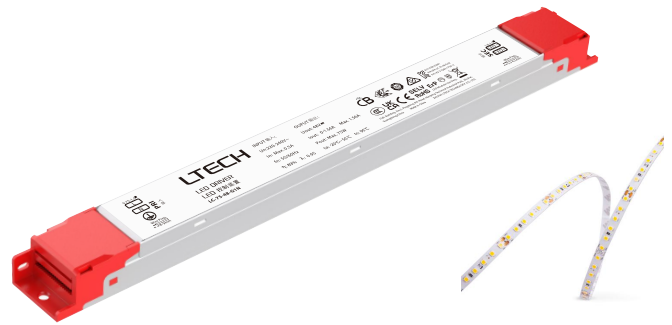


## Non-Dimmable LED Driver (Constant Voltage)

- Independent external LED driver.
- The clamshell design and screwless type for strain-relief.
- High performance, high efficiency, low THD.
- Energy-efficient driver: Efficiency 89%, PF>0.95, THD<15%.
- Innovative thermal management technology intelligently protects the power life.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Isolated LED driver, suitable for indoor light applications of I / II / III type.
- Indoor office lighting, decorative lighting, commercial lighting.
- 5-year warranty.



## Technical Specs

Model		LC-75-48-G1N	LC-75-24-G1N	LC-75-12-G1N	
OUTPUT	Output Voltage	48Vdc (Max)	24Vdc (Max)	12Vdc (Max)	
	Output Voltage Range	48Vdc ± 0.5Vdc	24Vdc ± 0.5Vdc	12Vdc ± 0.5Vdc	
	Output Current	Max 1.56A	Max 3.125A	Max 6.25A	
	Output Power	Max. 75W			
	Output Power Range	0-75W			
	Overload Power Limitation	≥102%			
INPUT	Input Voltage	220-240Vac			
	Frequency	50/60Hz			
	Input Current	0.5A/200Vac; 0.45A/230Vac; 0.4A/264Vac			
	Power Factor	PF>0.95/230Vac (at full load)			
	THD	200Vac@THD < 22%, 230Vac@THD < 15%, 264Vac@THD < 15%			
	Efficiency (typ.)	89%		88%	
	Standby Power Consumption	< 0.5W			
	Inrush Current	Cold start 45A/230Vac (Test twidth =400us under 50% Ipeak)			
	Anti Surge	L-N: 1KV			
	Leakage Current	Max. 0.7mA			
ENVIRONMENT	Working Temperature	ta: -20~50°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 (-20~50°C)			
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively			
PROTECTION	Overheat Protection	According to the PCB temperature exceeding the standard condition (≥110°C), automatically shut down			
	Overvoltage Protection	Shut down the output when non-load voltage ≥54V, and recover automatically	Shut down the output when non-load voltage ≥28V, and recover automatically	Shut down the output when non-load voltage ≥16V, and recover automatically	
	Overload Protection	Shut down the output when current load ≥102%, and recover automatically			
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically			
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac			
	Isolation Resistance	I/P-O/P: 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	
		UKCA	Britain	BS EN 61347-2-13:2014+A1:2017 BS EN 61347-1:2015+A1:2021	
	EMC Emission	ENEC	Europe	EN61347-1, EN61347-2-13, EN62384	
		CCC	China	GB/T17743, GB17625.1	
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547	
		KC	Korea	KSC 9815, KSC 9547	
		EAC	Russia	IEC62493, IEC61547, EH55015	
UKCA	Britain	BS EN IEC 55015:2019/A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A1:2019			
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547				
ErP	Power Consumption	Standby power consumption	No standby mode		
		Networked standby	≤0.5W		
		No-load power consumption	Without no-load mode		
	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			
OTHERS	Life Time	50000 hours			
	Warranty	5 years			

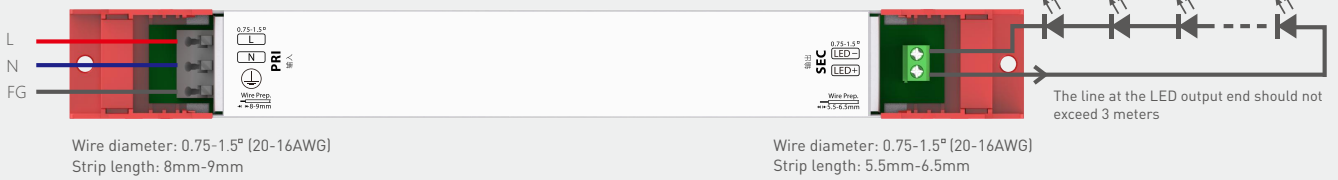
## Product Size

Unit: mm

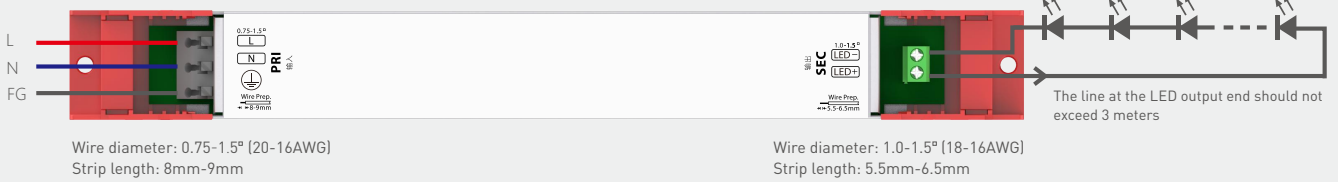


## Wiring Diagram

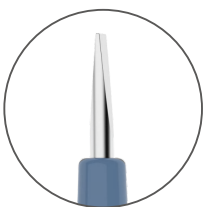
### 48/24V



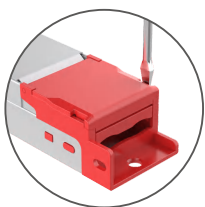
### 12V



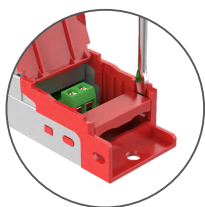
## Protective Housing Drawings



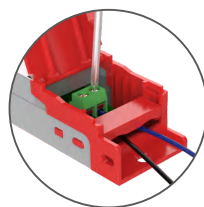
1. Prepare a screwdriver with a 0.6mm bit.



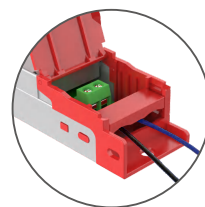
2. Pry up the protective housing in the side plate position with a tool.



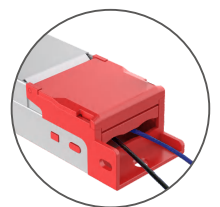
3. Pry up the side edge of the tension plate with a tool to remove it.



4. Use a screwdriver to connect electrical wires as wiring diagram shows.

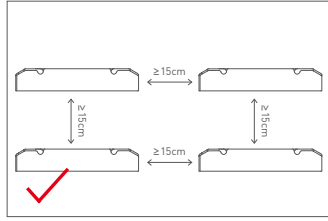
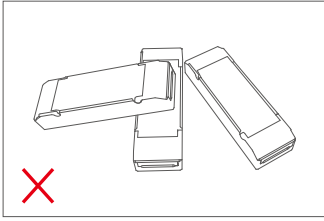


5. Press down the tension plate to fix the electrical wires.

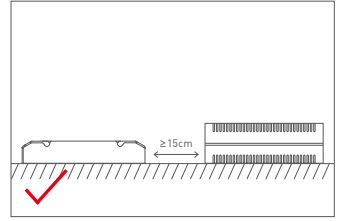
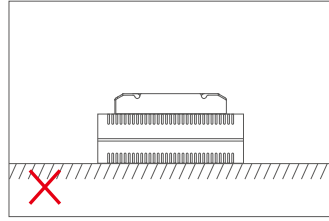


6. Close the protective housing.

## 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.

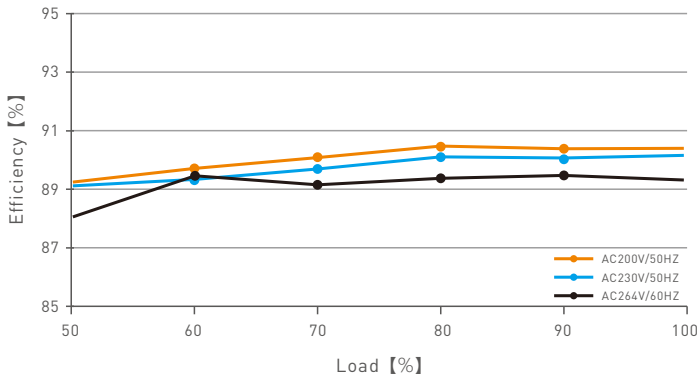


Please not place the products on LED drivers. The distance between the product and the driver should be  $\geq 15\text{cm}$  so as not to affect heat dissipation and shorten the lifespan of the products.

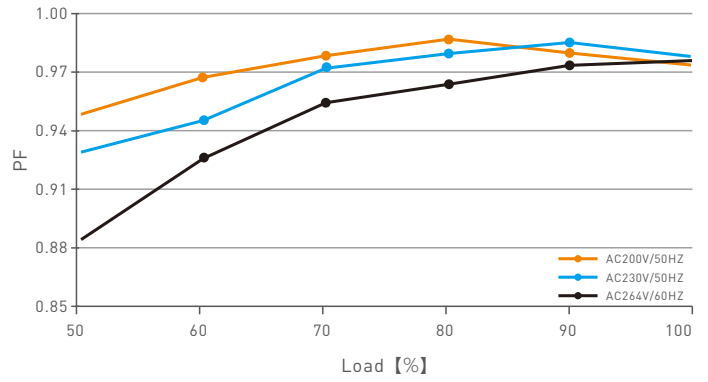
## Relationship Diagrams

LC-75-48-G1N

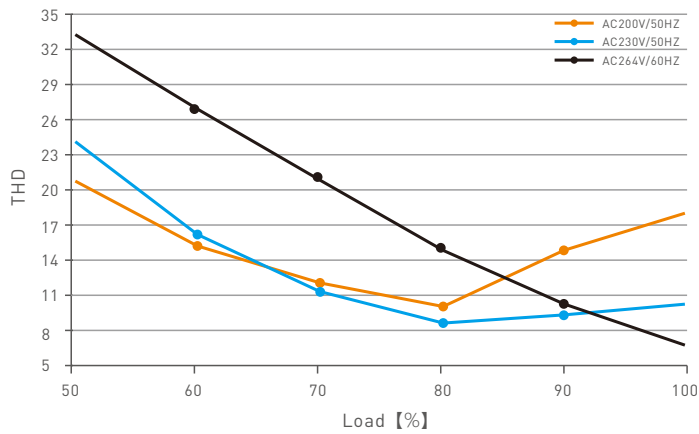
Efficiency vs Load



Power Factor Characteristic

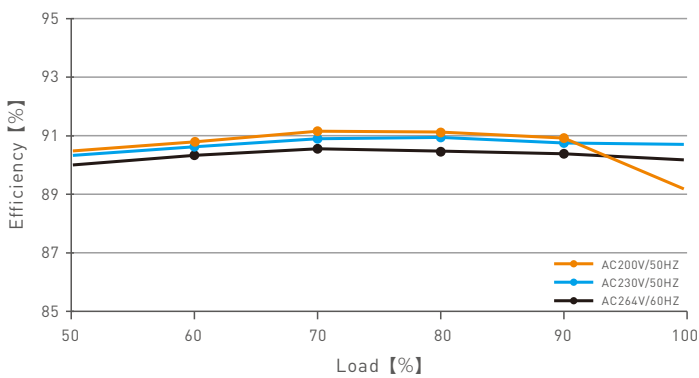


THD VS Load

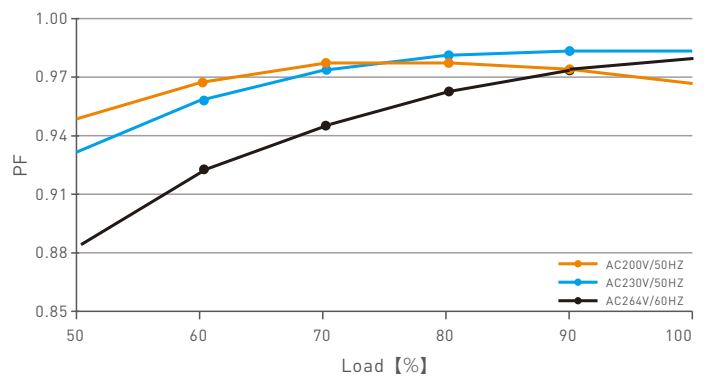


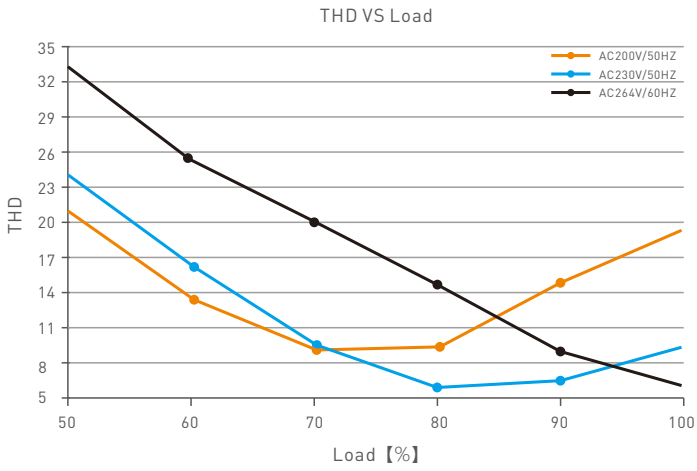
LC-75-24-G1N

Efficiency vs Load

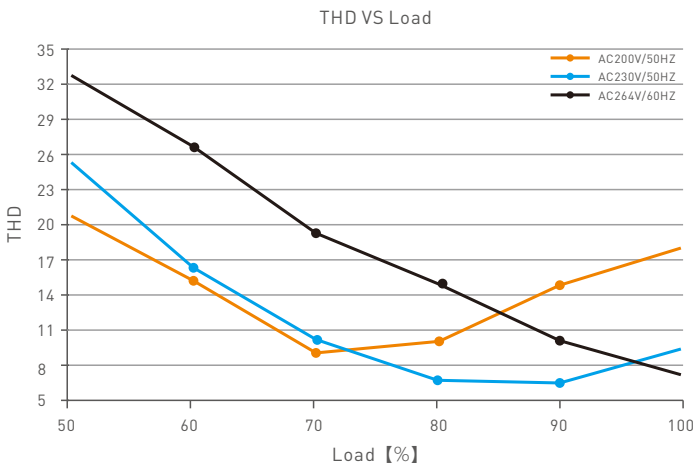
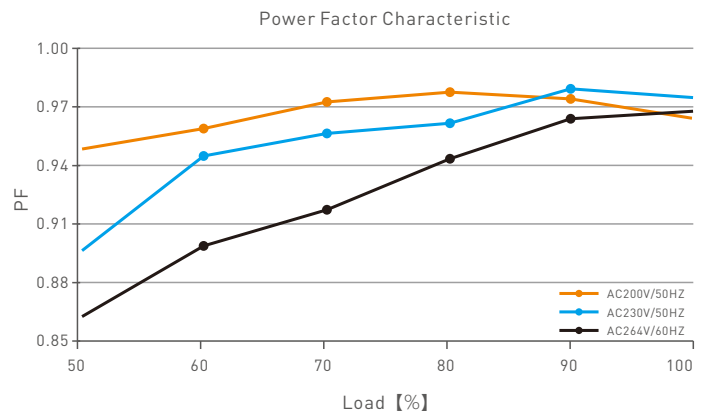
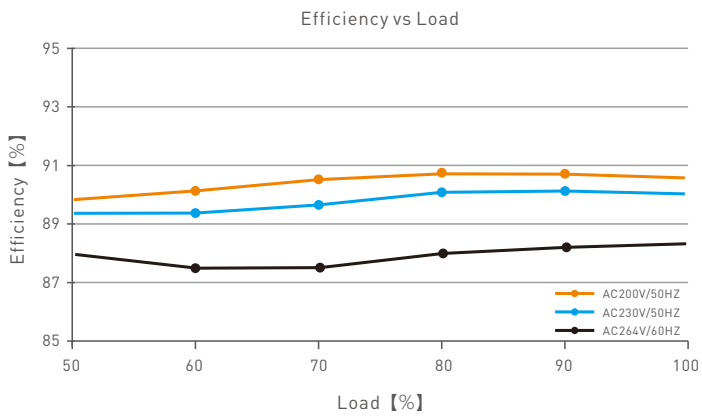


Power Factor Characteristic





## LC-75-12-G1N



## Packaging Specifications

Model	LC-75-48-G1N / LC-75-24-G1N / LC-75-12-G1N
Carton Dimensions	335×265×120mm(L×W×H)
Quantity	10 PCS/Layer; 3 Layers/Carton; 30 PCS/Carton
Weight	0.26 kg/PC; 8.6 kg/Carton

## Packaging Image



Inner Packaging Box



Carton Packaging

## 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 non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
  - Good heat dissipation will extend 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
A1	2021.12.10	Update product silk screen	Liu Weili
A2	2022.09.28	Update packaging specifications	Liu Weili