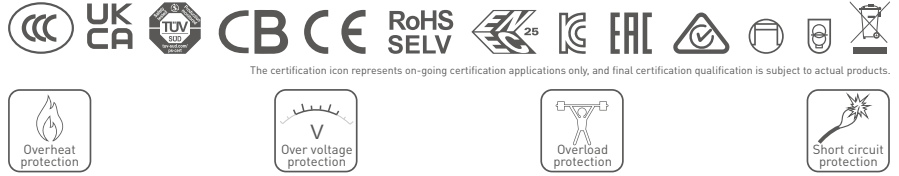# LTECH

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.

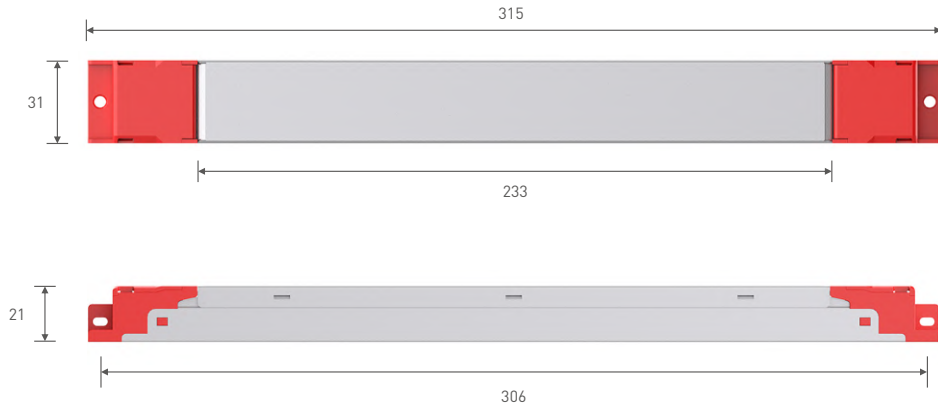The certification icon represents on-going certification applications only, and final certification qualification is subject to actual products.

Overheat protection · Over voltage protection · Overload protection · Short circuit protection

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: 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		
		UKCA — Britain — BS EN 61347-2-13:2014+A1:2017 BS EN 61347-1:2015+A1:2021		
		ENEC — Europe — EN61347-1, EN61347-2-13, EN62384		
	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		
		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		
OTHERS	Dimensions	315×31×21mm(L×W×H)		
	Package size	318×33×24mm(L×W×H)		
	Gross weight(G.W)	260g±10g		

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Product Size

Unit: mm

315

31

233

21

306

Wiring Diagram

48/24V

L
N
FG

0.75-1.5²
L
N
PRI
Wire Prep.
8-9mm

0.75-1.5²
LED−
SEC
LED+
Wire Prep.
5.5-6.5mm

Wire diameter: 0.75-1.5² (20-16AWG)
Strip length: 8mm-9mm

Wire diameter: 0.75-1.5² (20-16AWG)
Strip length: 5.5mm-6.5mm

12V

L
N
FG

0.75-1.5²
L
N
PRI
Wire Prep.
8-9mm

1.0-1.5²
LED−
SEC
LED+
Wire Prep.
5.5-6.5mm

Wire diameter: 0.75-1.5² (20-16AWG)
Strip length: 8mm-9mm

Wire diameter: 1.0-1.5² (18-16AWG)
Strip length: 5.5mm-6.5mm
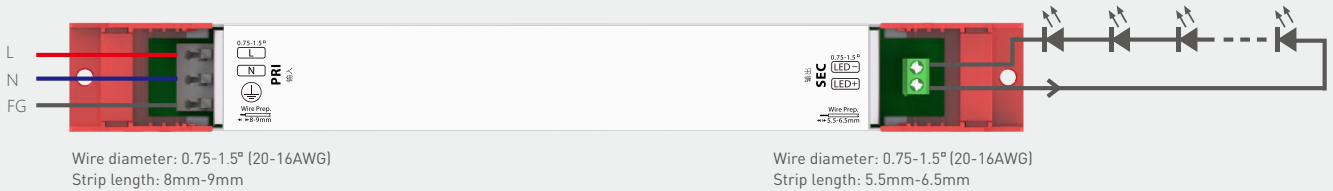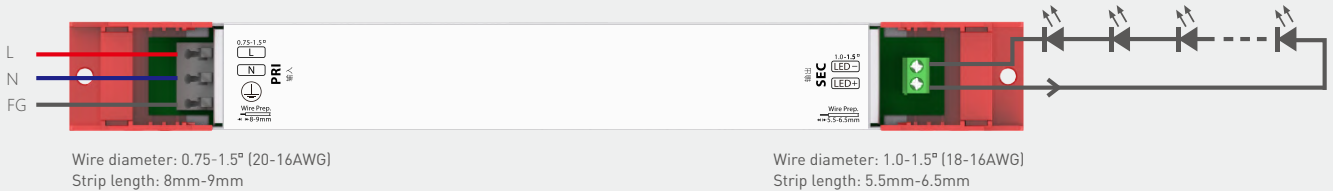
Protective Housing Drawings
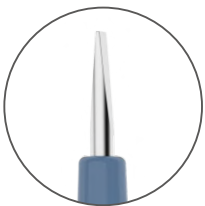
1. Prepare a screwdriver with a 0.6mm bit.
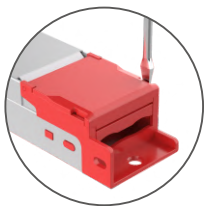
2. Pry up the protective housing in the side plate position with a tool.

3. Pry up the side edge of the tension plate with a tool to remove it.
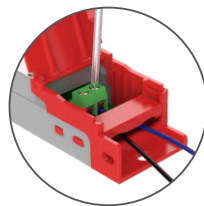
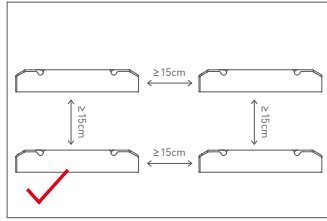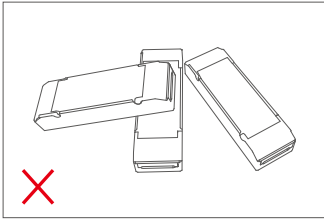4. Use a screwdriver to connect electrical wires as wiring diagram shows.
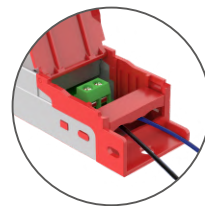
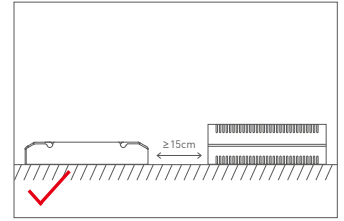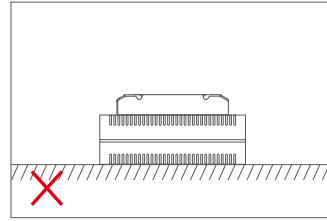5. Press down the tension plate to fix the electrical wires.
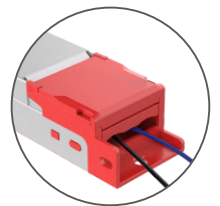
6. Close the protective housing.

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Installation Precautions
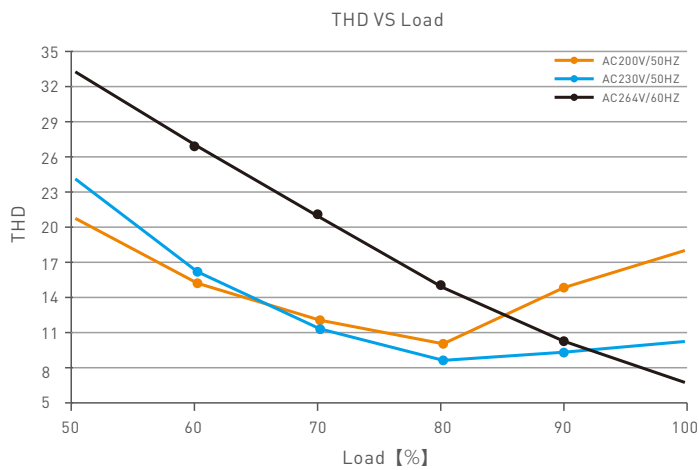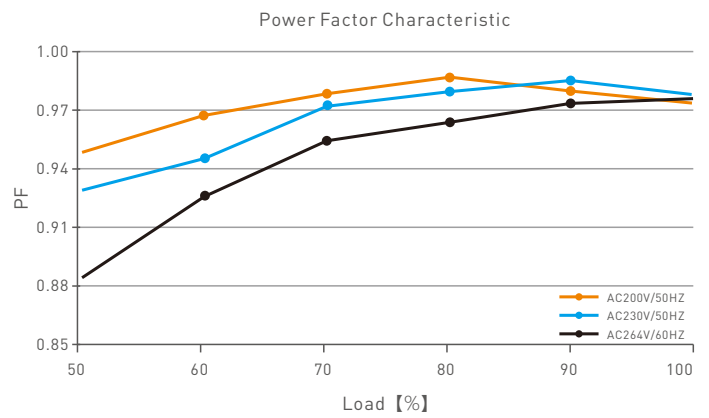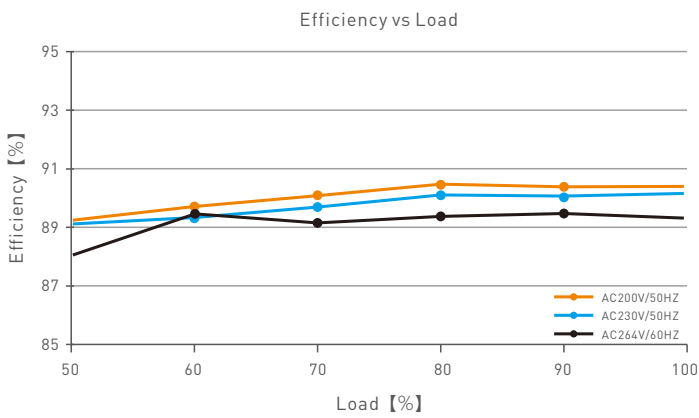
Please do not stack the products. The distance between two products should be≥15cm so as not to affect heat dissipation and the lifespan of the products.
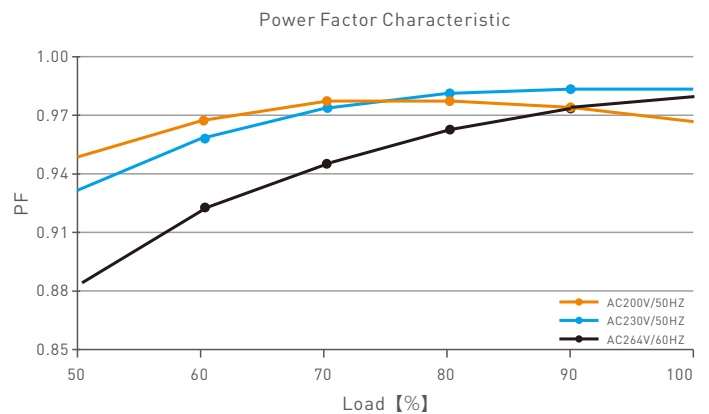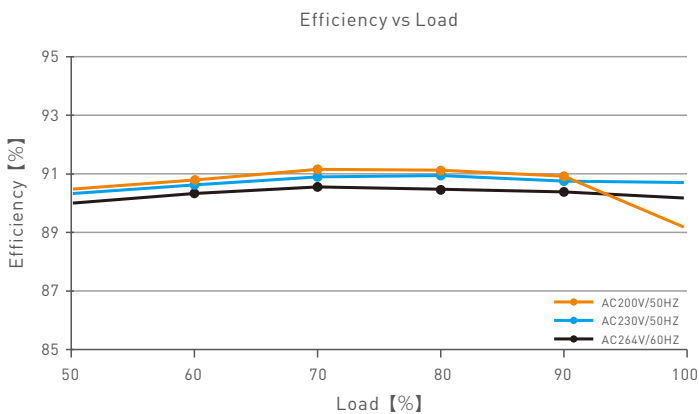
Please not place the products on LED drivers. The distance between the product and the driver should be ≥15cm so as not to affect heat dissipation and shorten the lifespan of the products.

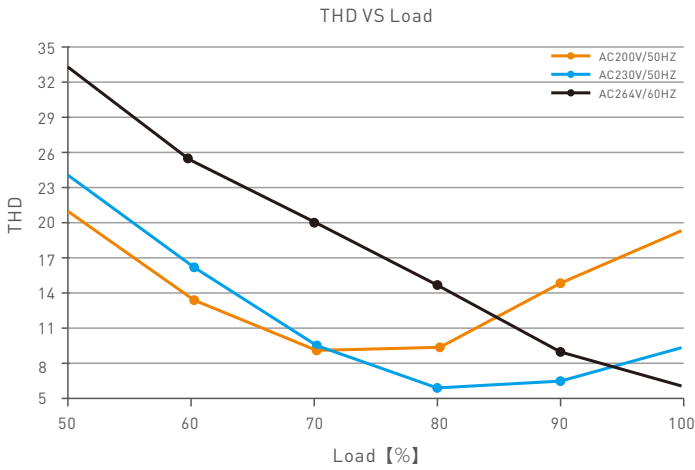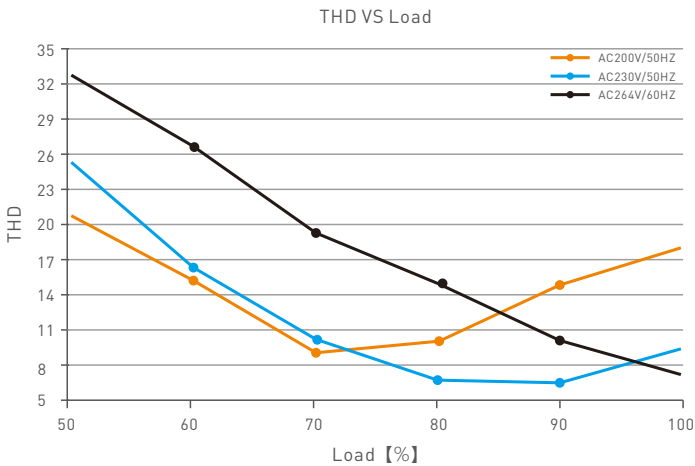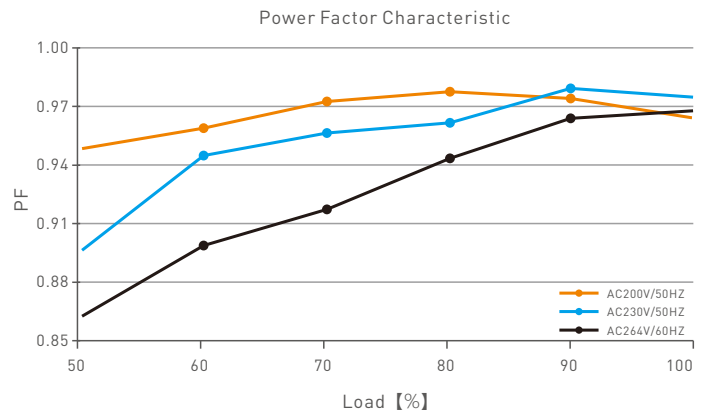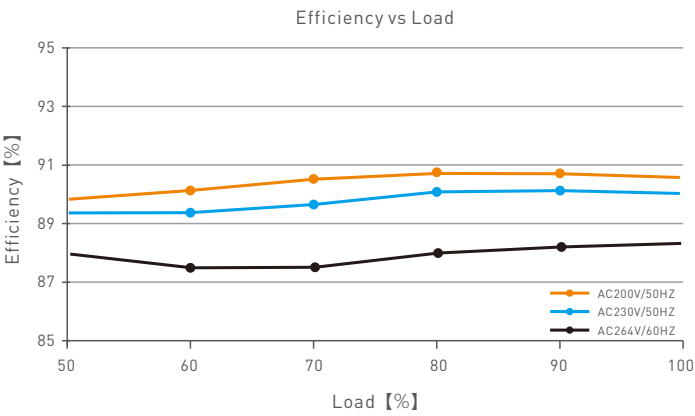## Relationship Diagrams

LC-75-48-G1N

Efficiency vs Load

Power Factor Characteristic

THD VS Load

LC-75-24-G1N

Efficiency vs Load

Power Factor Characteristic

THD VS Load

AC200V/50HZ
AC230V/50HZ
AC264V/60HZ

THD

Load【%】

LC-75-12-G1N

Efficiency vs Load

Efficiency【%】

AC200V/50HZ
AC230V/50HZ
AC264V/60HZ

Load【%】

Power Factor Characteristic

PF

AC200V/50HZ
AC230V/50HZ
AC264V/60HZ

Load【%】

THD VS Load

AC200V/50HZ
AC230V/50HZ
AC264V/60HZ

THD

Load【%】

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.

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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