



General

|                  |                     |
|------------------|---------------------|
| Product Type     | Non-dimmable driver |
| Length (mm)      | 315                 |
| Width (mm)       | 31                  |
| Height (mm)      | 21                  |
| Housing Color    | White               |
| Housing Material | Plastic             |
| Mounting         | Surface mounted     |
| Weight (g)       | 260                 |

Electronics

|                             |                 |
|-----------------------------|-----------------|
| Input Domain                | AC              |
| Input Voltage               | 220 ~ 240V AC   |
| Input Current max (A)       | 0.45A @ 230V AC |
| Output Voltage              | 12V DC          |
| Output Current Max. (A)     | 6.25            |
| Output Power Range (W)      | 0~75            |
| Output Power (W)            | 75W @ 12V       |
| Power Factor at Full Load   | +0.95 @ 230VAC  |
| LED Outputs                 | 1               |
| Efficiency                  | 88%             |
| Leakage current max. (mA)   | 0.7             |
| Standby Power Loss Max. (W) | 0.5             |
| THD (at full load)          | 15%             |
| Input Frequency             | 50 ~ 60Hz       |
| Inrush Current              | 45A @ 230VAC    |

Lighting

|             |              |
|-------------|--------------|
| Color Range | Single Color |
|-------------|--------------|

Control

|                    |                       |
|--------------------|-----------------------|
| Control            | on-off (non dimmable) |
| Number of Channels | 1                     |

Protection

|          |     |
|----------|-----|
| Overload | Yes |
|----------|-----|

Environmental

|                       |              |
|-----------------------|--------------|
| Storage Temperature   | -40 ~ +80 °C |
| Operating Temperature | -20 ~ +50 °C |
| Ingress Protection    | IP20         |

CE IP20 5<sup>year</sup> warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



## 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.

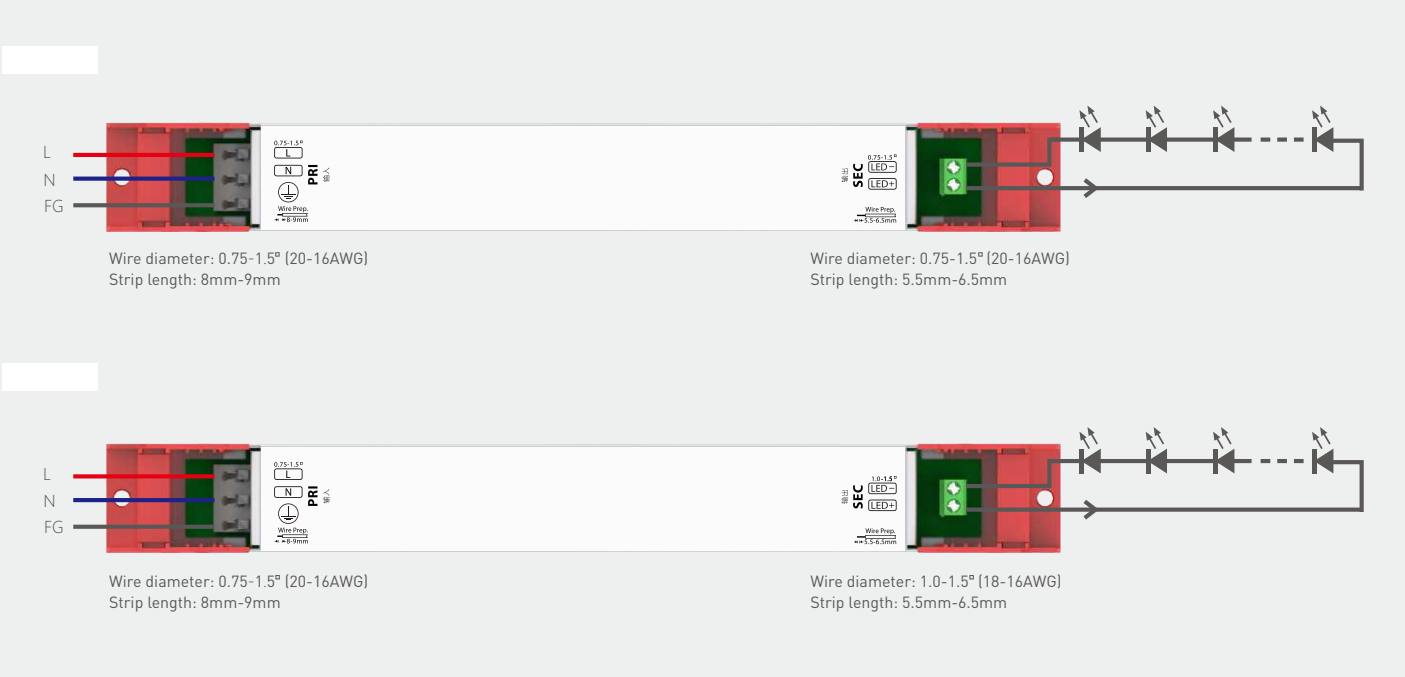
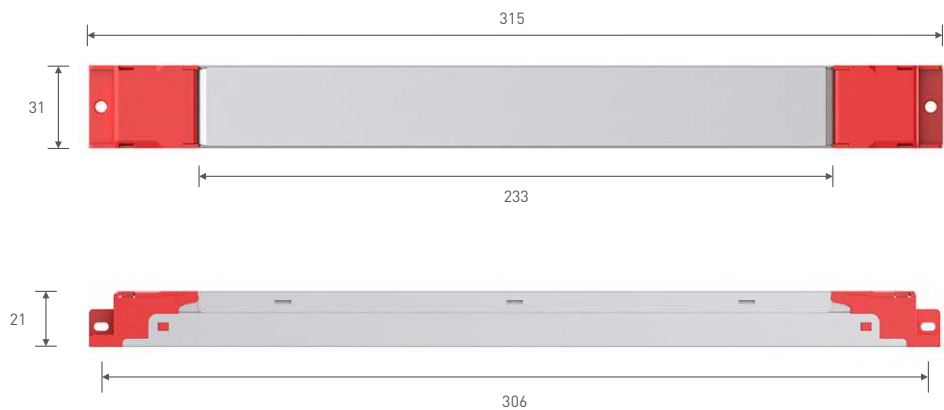


The certification icon represents on-going certification applications only, and final certification qualification is subject to actual products.



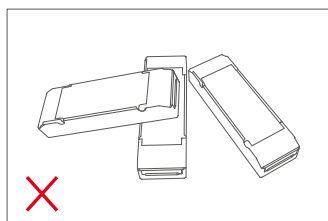
| Model             |                               | LC-75-48-G1N                                                                                        |                    | LC-75-24-G1N                                                                                            |  | LC-75-12-G1N                                                               |  |
|-------------------|-------------------------------|-----------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|
| 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                                              |  |                                                                            |  |
|                   |                               | 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                                                                                            |                    |                                                                                                         |  |                                                                            |  |

Unit: mm

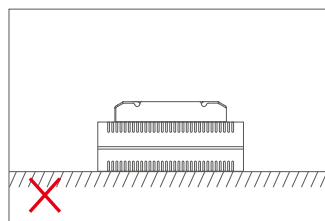
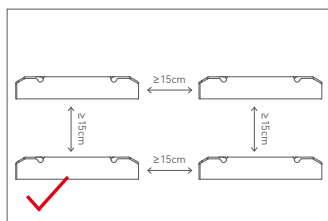


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1. Prepare a screwdriver with a 0.6mm bit.
  2. Pry up the protective housing in the side plate position with a tool.
  3. Pry up the side edge of the tension plate with a tool to remove it.
  4. Use a screwdriver to connect electrical wires as wiring diagram shows.
  5. Press down the tension plate to fix the electrical wires.
  6. Close the protective housing.

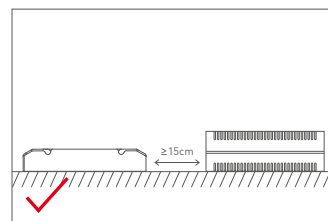
## Installation Precautions



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.

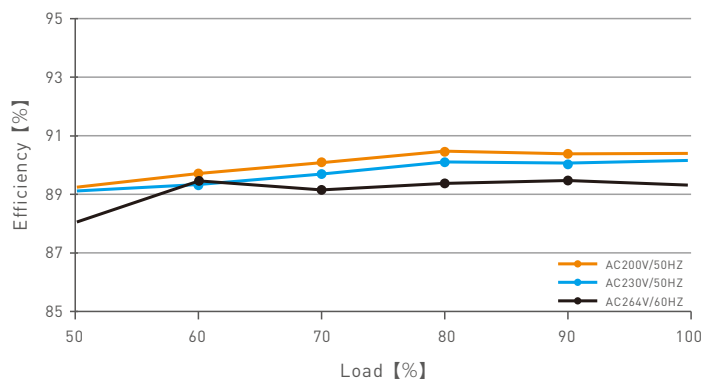


Please not place the products on LED drivers. The distance between the product and the driver should be  $\geq 15\text{cm}$  so as not to affect heat dissipation and shorten the lifespan of the products.

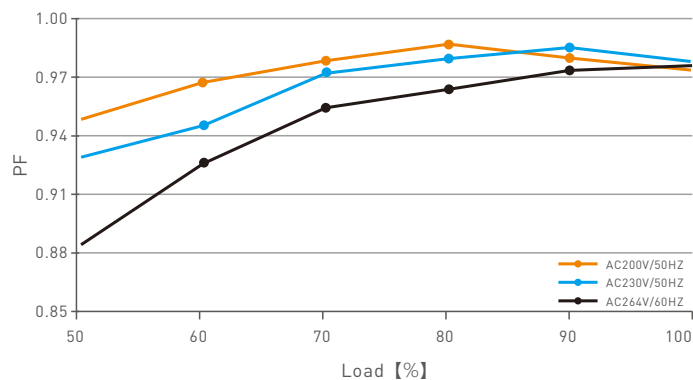


### LC-75-48-G1N

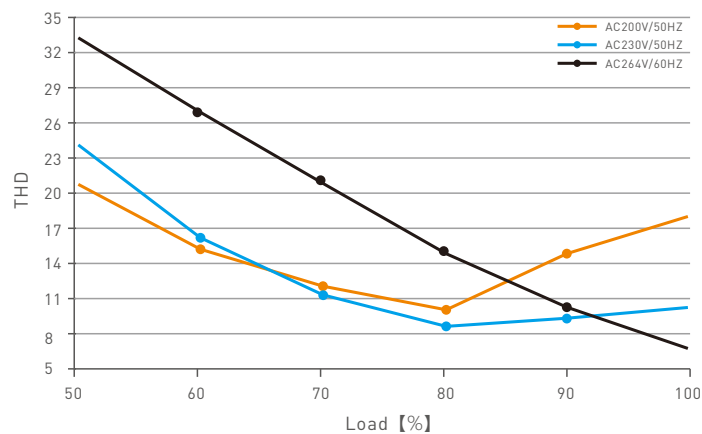
Efficiency vs Load



Power Factor Characteristic

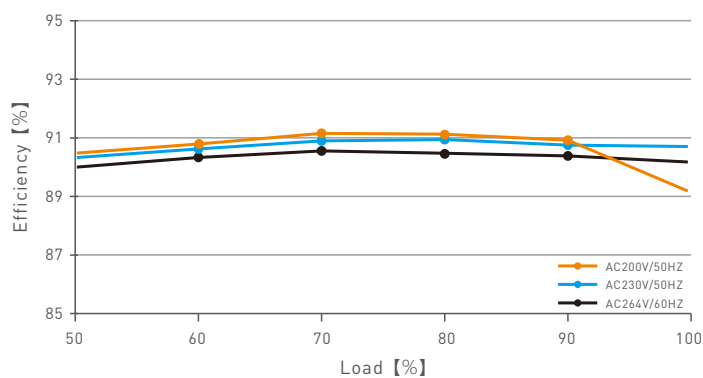


THD VS Load

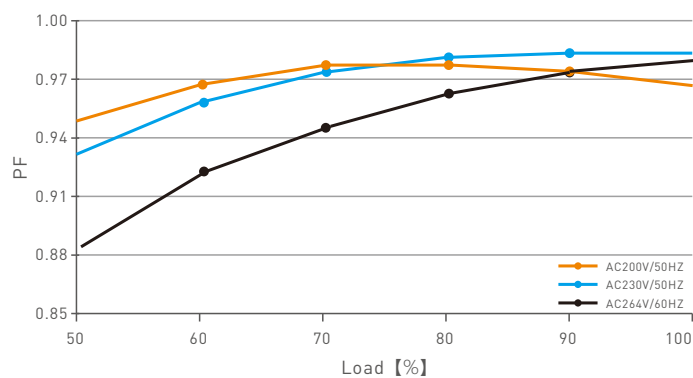


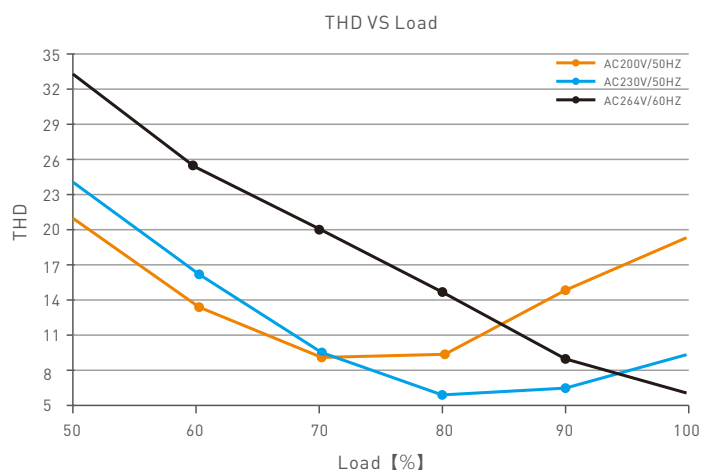
### LC-75-24-G1N

Efficiency vs Load

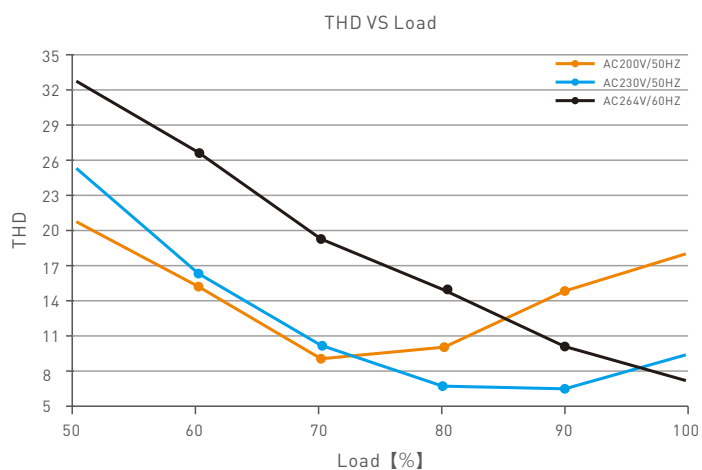
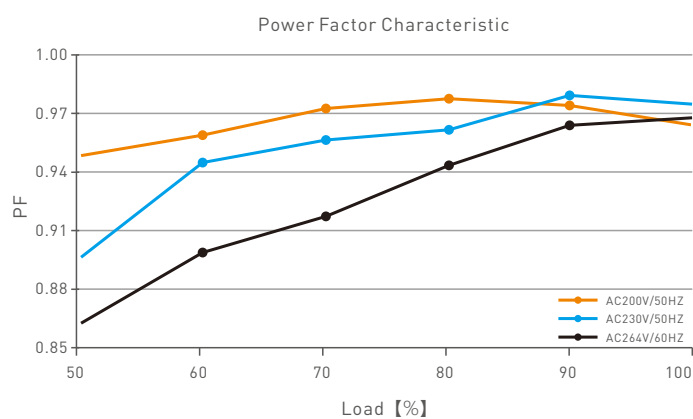
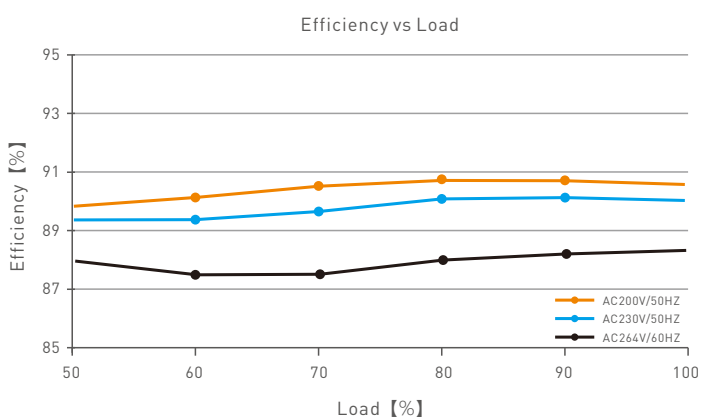


Power Factor Characteristic





### LC-75-12-G1N



- 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 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  |