

## Features

- High efficiency, High PF, Low THD
- Isolated, Flicker free
- Suitable for Class II light fixtures



## Applications

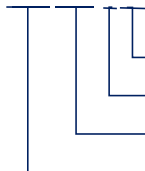
- Indoor decorative lighting
- residential lighting

## Descriptions

LF-GHY180H24 is a 180W isolated constant voltage LED driver, Its input voltage ranges from 220 to 240Vac; output voltage is 24V; output current is 0-7.5A. Mainly for indoor constant voltage LED strip.

## Product Model

LF-GHY180H24



- 24: DC24V output voltage
- H: input voltage: 220-240Vac
- 180: output power: 180W
- G: isolated circuit; HY: constant voltage

## ■ Electrical Characteristics

| Model                                    |                                    | LF-GHY180H24                                                                                                                                                                                                                                                                                                                                                                  |     |     |     |     |
|------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Output                                   | Output Power                       | 180W Max                                                                                                                                                                                                                                                                                                                                                                      |     |     |     |     |
|                                          | Output Voltage                     | 24Vdc                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |     |
|                                          | Output Current                     | 0-7.5A <sup>①</sup>                                                                                                                                                                                                                                                                                                                                                           |     |     |     |     |
|                                          | Flicker Index (Modulation Depth)   | Complies with IEEE Std 1789-2015                                                                                                                                                                                                                                                                                                                                              |     |     |     |     |
|                                          | CIE SVM                            | ≤0.4                                                                                                                                                                                                                                                                                                                                                                          |     |     |     |     |
|                                          | IEC-Pst                            | ≤1                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |
|                                          | Ripple Voltage                     | 720mV Max                                                                                                                                                                                                                                                                                                                                                                     |     |     |     |     |
|                                          | Voltage Tolerance                  | ±3%                                                                                                                                                                                                                                                                                                                                                                           |     |     |     |     |
| Input                                    | AC Input Voltage                   | 220-240Vac (voltage limit: 198-264Vac)                                                                                                                                                                                                                                                                                                                                        |     |     |     |     |
|                                          | DC Input Voltage                   | 220-240Vdc (voltage limit: 180-264Vdc) <sup>②</sup>                                                                                                                                                                                                                                                                                                                           |     |     |     |     |
|                                          | Input Frequency                    | 0/50/60Hz                                                                                                                                                                                                                                                                                                                                                                     |     |     |     |     |
|                                          | Input Current                      | 1.2A Max                                                                                                                                                                                                                                                                                                                                                                      |     |     |     |     |
|                                          | THD                                | ≤10%                                                                                                                                                                                                                                                                                                                                                                          |     |     |     |     |
|                                          | Power Factor                       | ≥0.95                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |     |
|                                          | Efficiency                         | ≥93%                                                                                                                                                                                                                                                                                                                                                                          |     |     |     |     |
|                                          | Inrush Current                     | ≤60A <sup>③</sup>                                                                                                                                                                                                                                                                                                                                                             |     |     |     |     |
|                                          | Load Quantities of Circuit Breaker | Model                                                                                                                                                                                                                                                                                                                                                                         | B10 | C10 | B16 | C16 |
|                                          |                                    | Quantity (pcs)                                                                                                                                                                                                                                                                                                                                                                | 3   | 5   | 5   | 8   |
|                                          | Leakage Current                    | ≤0.7mA                                                                                                                                                                                                                                                                                                                                                                        |     |     |     |     |
| Protection Characteristics               | Short Circuit                      | Hiccupmode (auto-recovery)                                                                                                                                                                                                                                                                                                                                                    |     |     |     |     |
|                                          | Overload Protection                | 110-130% (auto-recovery)                                                                                                                                                                                                                                                                                                                                                      |     |     |     |     |
| Environment Descriptions                 | Operating Temperature              | -30°C - +50°C                                                                                                                                                                                                                                                                                                                                                                 |     |     |     |     |
|                                          | Operating Humidity                 | 20-90%RH (no condensation)                                                                                                                                                                                                                                                                                                                                                    |     |     |     |     |
|                                          | Storage Temperature/Humidity       | -40°C - +80°C (6 months in Class I environment); 10-90%RH (no condensation)                                                                                                                                                                                                                                                                                                   |     |     |     |     |
|                                          | Atmospheric Pressure               | 86-106KPa                                                                                                                                                                                                                                                                                                                                                                     |     |     |     |     |
| Safety and Electromagnetic Compatibility | Certifications                     | ENEC、CE、CB、RCM、UKCA、MM、CCC                                                                                                                                                                                                                                                                                                                                                    |     |     |     |     |
|                                          | Withstand Voltage                  | I/P-O/P: 3.75KVac&5mA&60S                                                                                                                                                                                                                                                                                                                                                     |     |     |     |     |
|                                          | Insulation Resistance              | I/P-O/P: >100MΩ@500Vdc                                                                                                                                                                                                                                                                                                                                                        |     |     |     |     |
|                                          | Safety Standards                   | ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384: 2016/A1:2009<br>CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015<br>CB: IEC 61347-1:2015, IEC61347-2-3:2014, IEC 61347-2-13:2014/AMD1:2016<br>UKCA-LVD: EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017<br>EN 62493:2015<br>RCM: AS 61347.2-13:2018<br>CCC: GB19510.1-2009, GB19510.14-2009 |     |     |     |     |
|                                          | EMI                                | CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3<br>UKCA-EMC: EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021<br>CCC: GB/T17743, GB17625.1, GB17625.2                                                                                                                                                                        |     |     |     |     |
|                                          | EMS                                | CE-EMC/RCM: EN61000-4-2,3,4,5 (lightning strike: 1kV),6,11<br>CCC: GB/T17626.2,3,4,5 (lightning strike: 1kV),6,11                                                                                                                                                                                                                                                             |     |     |     |     |
| Other Parameters                         | IP Rating                          | IP20                                                                                                                                                                                                                                                                                                                                                                          |     |     |     |     |
|                                          | RoHS                               | RoHS 2.0 (EU) 2015/863                                                                                                                                                                                                                                                                                                                                                        |     |     |     |     |
|                                          | Warranty                           | 5 years <sup>④</sup>                                                                                                                                                                                                                                                                                                                                                          |     |     |     |     |

## ■ Electrical Characteristics

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Equipment</b>     | AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, Hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test): Everfine LFA-3000, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Remark</b>        | If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Additional Remarks</b> | <ol style="list-style-type: none"> <li>1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety.</li> <li>2. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished.</li> <li>3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current.</li> <li>4. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above.</li> </ol> |

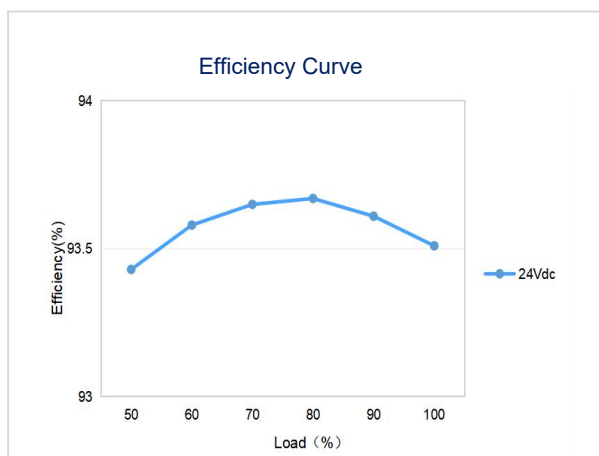
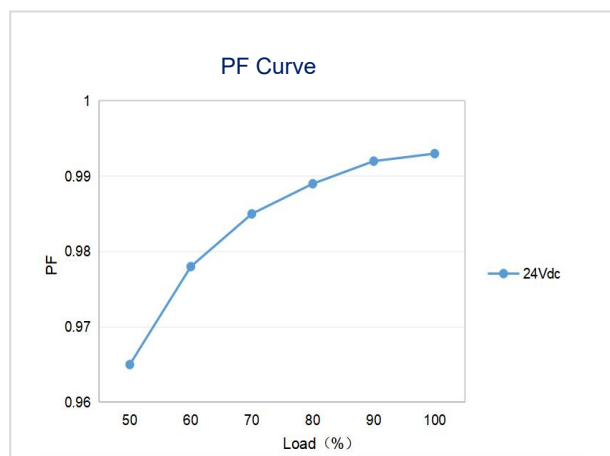
Notice: ① It cannot meet the single harmonic requirements of the European standard EN61000-3-2 with a load of less than 20%.

② DC input is only for emergency use, with a maximum duration of 90 minutes.

③ @400uS

④ 5 years@Tc≤86°C

## ■ Product Characteristic Curves



### Lifud Technology Co., Ltd.

Production Base I (HQ): Building B, Kutto Industrial Park, NO.26 Xinhe Road, Bao'an District, Shenzhen, China.

Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Zone, Tianfu New Area, Sichuan, China.

Website: [www.lifud.com](http://www.lifud.com)

Telephone: +86(0)755 8373 9299

Email: [sales@lifud.com](mailto:sales@lifud.com)

| Temperature (°C) | Life Time (khours) |
|------------------|--------------------|
| 55               | 130                |
| 60               | 130                |
| 65               | 130                |
| 70               | 130                |
| 75               | 100                |
| 80               | 70                 |
| 85               | 50                 |
| 90               | 35                 |

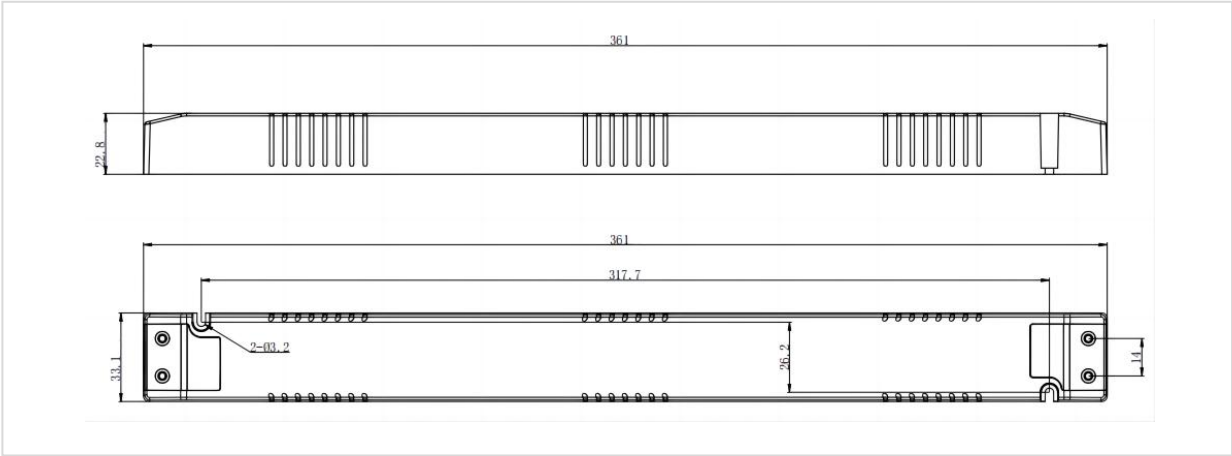
Technical drawing of a long, thin mechanical component, likely a rail or track. The drawing shows a side view with a central section and end fittings. Key dimensions are indicated: a total length of 336, a height of 30.7, a small offset of 11.5, and a distance of 104 from the end to a specific feature labeled 'TC'.

| INPUT |                                   | OUTPUT |                                         |
|-------|-----------------------------------|--------|-----------------------------------------|
| AC-L  | Input terminal of AC live wire    | LED+   | Positive electrode output of LED driver |
| AC-N  | Input terminal of AC neutral wire | LED-   | Negative electrode output of LED driver |

■ Structure & Dimensions (unit: mm)

Product Dimensions

| Model        | Overall Appearance (L*W*H) | Center-to-center Spacing of Positioning Hole | Diameter of Positioning Hole |
|--------------|----------------------------|----------------------------------------------|------------------------------|
| LF-GHY180H24 | 361*33.1*22.8mm (±0.5mm)   | 317.7mm (±0.2mm)                             | 3.2mm                        |



■ Packaging Specifications

| Model       | LF-GHY180H24                          |
|-------------|---------------------------------------|
| Carton Size | 385×285×210 mm (L×W×H)                |
| Quantity    | 6 pcs/layer; 8 layers/ctn; 48 pcs/ctn |
| Weight      | 0.29 kg±5%/pc; 14.68 kg±5%/ctn        |

■ Packaging Specifications of Individual Small White Box

| Model       | LF-GHY180H24                          |
|-------------|---------------------------------------|
| Carton Size | 378×197×172 mm (L×W×H)                |
| Quantity    | 5 pcs/layer; 5 layers/ctn; 25 pcs/ctn |
| Weight      | 0.29 kg±5%/pc; 8.8 kg±5%/ctn          |

## ■ Transportation & Storage

### 1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

### 2. Storage

- The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

## Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Technology Co., Ltd. reserves the right to interpret any contents of this specification.

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