

Features

- Ta: 70°C
- Compact Size
- High efficiency up to 90%
- Terminals for convenient wiring
- Flicker free



Applications

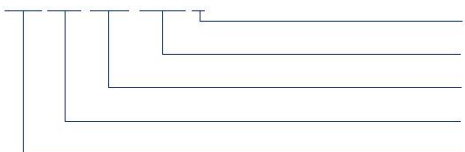
· Commercial lighting · indoor office lighting · decorative lighting · residential lighting

Descriptions

LF-GIC040YSIIxxxxH is an isolated constant current LED driver with the maximum output power of 40W. Its rated input voltage ranges from 220 to 240Vac and its output voltage ranges from 33 to 40Vdc. It is suitable for Class I and II light fixtures such as down light, ceiling light and so on.

Product Model

LF- GIC 040 YSII xxxx H



- H: input voltage: 220-240Vac
- xxxx: output current (e.g. 1000: 1000mA)
- Y: conforms to certifications; S: serial number; II: the 2rd gen.
- 040: output power: 40W
- G: isolated design; IC: indoor round casing LED driver series

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■ Electrical Characteristics

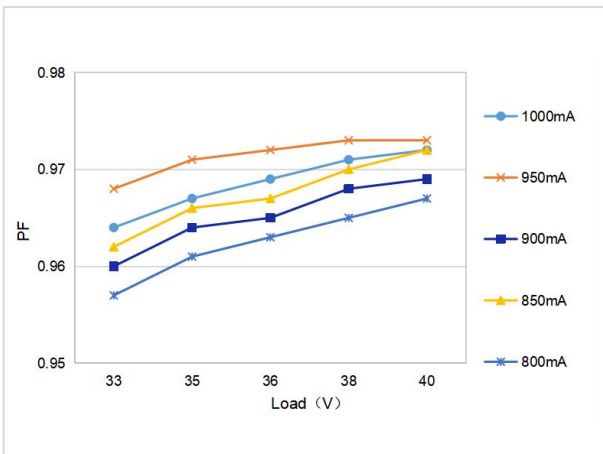
| Model | | LF-GIC040YSIIxxxxH | | | | |
|---------------------------|---------------------------------------|---|-------|-------|-------|--------|
| Output | Output Voltage | 33-40V | | | | |
| | Output Current | 800mA | 850mA | 900mA | 950mA | 1000mA |
| | Flicker | Conforms to IEEE 1789 standard. | | | | |
| | CIE SVM | ≤0.4 | | | | |
| | IEC-Pst | ≤1.0 | | | | |
| | Current Tolerance | ±5% | | | | |
| | Temperature Drift | ±10% | | | | |
| | Startup Time | <0.5S | | | | |
| Input | Input Voltage | 220-240Vac (voltage limit: 200-264Vac) | | | | |
| | Input Frequency | 47Hz-63Hz | | | | |
| | Input Current | 0.3A max. | | | | |
| | PF | ≥0.95 | | | | |
| | THD | ≤20% | | | | |
| | Efficiency | ≥90% | | | | |
| | Inrush Current | ≤45A@250uS | | | | |
| | Loading Quantities of Circuit Breaker | Model | B10 | C10 | B16 | C16 |
| | | Quantity (pcs) | 22 | 30 | 35 | 50 |
| | Leakage Current | ≤0.7mA | | | | |
| Standby Power Consumption | <0.5W | | | | | |
| Protections | Open Circuit | <55V | | | | |
| | Short Circuit | Hiccup mode (auto-recovery) | | | | |
| Environment Descriptions | Operating Temperature | -30°C - +70°C | | | | |
| | Operating Humidity | 0-95%RH (without condensation) | | | | |
| | Storage Temperature/ Humidity | -30°C - 80°C (6 months in Class I environment); 0-95%RH (without condensation) | | | | |
| | Atmospheric Pressure | 86-106kPa | | | | |
| Safety and EMC | Certifications | ENEC, CE, CB, RCM, CCC | | | | |
| | Withstanding Voltage | I/P-O/P: 3.75kV&5mA&60S | | | | |
| | Insulation Resistance | I/P-O/P: >100MΩ@500Vdc | | | | |
| | Safety Standards | ENEC: EN61347-1:2015, EN61347-2-13: 2014/A1: 2017, EN62384 2016/A1: 2009 CE-LVD: EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015 CB: IEC61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 CCC: GB19510.1-2009, GB19510.14-2009 RCM: AS61347.2-13: 2018 | | | | |
| | EMI | CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 CCC: GB/T17743, GB17625.1, GB17625.2 | | | | |
| | EMS | CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11 | | | | |

Electrical Characteristics

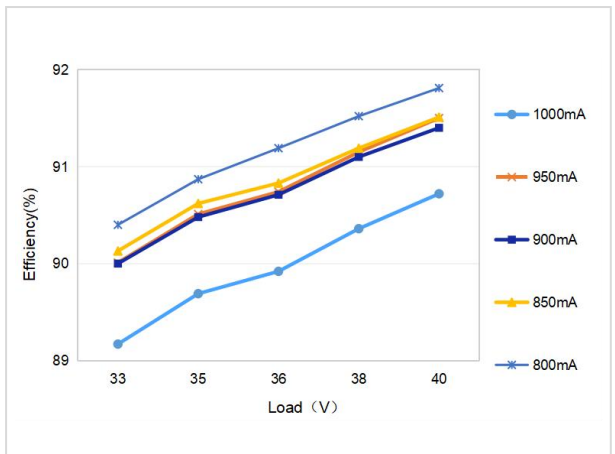
| | | |
|--------------------------|---|------------------------|
| Other Parameters | IP Rating | IP40 |
| | RoHS | RoHS 2.0 (EU) 2015/863 |
| | Warranty | 5 years (Tc≤84.2°C) |
| Testing Equipment | AC power source: CHROMA6530, digital power meter: CHROMA66205, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc. | |
| Remarks | <ol style="list-style-type: none"> 1. It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories in the whole light fixture, and its EMC 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 performance of LED driver before the whole light fixture is finished. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 4. The PC shade, casing and plug for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 5. The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load, input voltage of 230Vac/50Hz without any special remarks. | |

Product Characteristic Curves

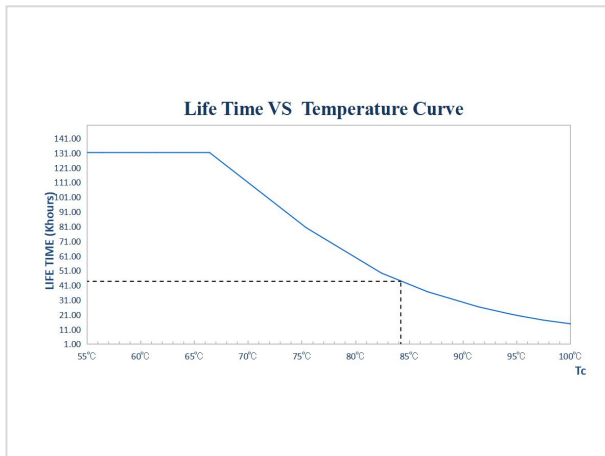
PF Curve



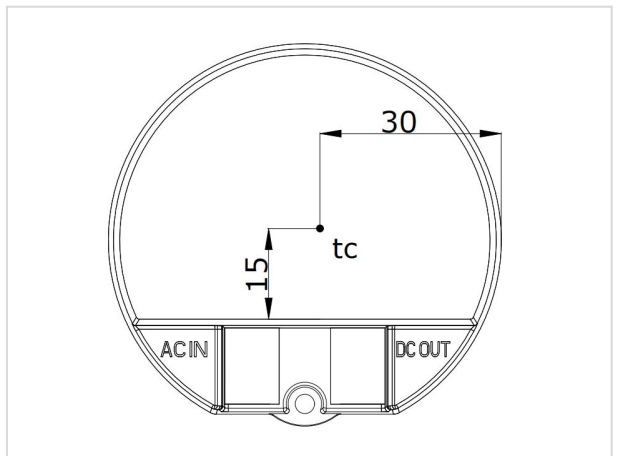
Efficiency Curve



Lifetime Curve



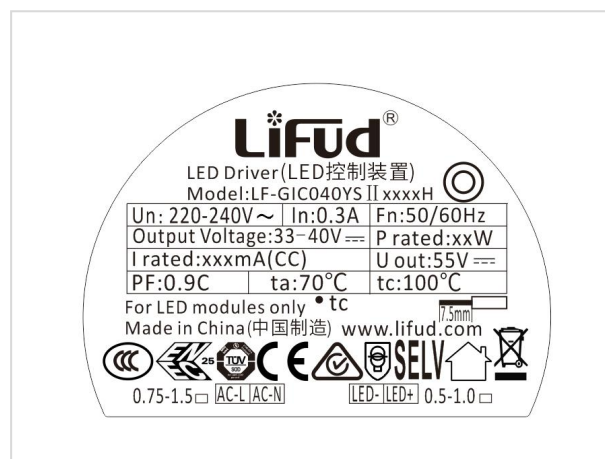
Tc Point Testing Diagram



■ Definitions of Product Terminals

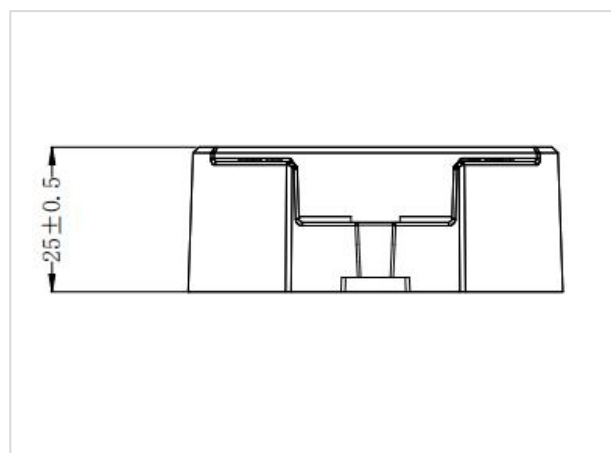
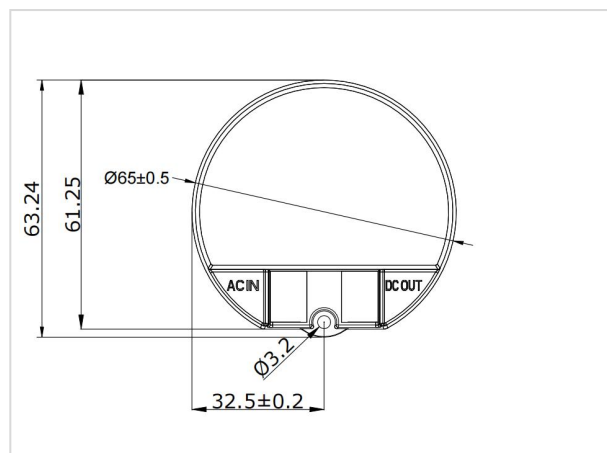
| INPUT | | OUTPUT | |
|-------|-----------------------------------|--------|---|
| AC-L | Input terminal of AC live wire | LED+ | Positive electrode output of LED driver |
| AC-N | Input terminal of AC neutral wire | LED- | Negative electrode output of LED driver |

■ Label



■ Structures and Dimensions

| Overall Appearance Dimension (D×H) | Positioning Hole Dimension (D) |
|------------------------------------|--------------------------------|
| Φ 65*25 mm | Φ 3.2 mm |



■ Packaging Specifications

| Model | LF-GIC040YSIIxxxxH |
|-------------|--|
| Carton Size | 385×285×210mm (L×W×H) |
| Quantity | 12 pcs/layer; 7 layers/ctn; 84 pcs/ctn |
| Weight | 0.12 kg/pc; 11.05 kg/ctn |

■ Transportation and 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 Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.