LiFud 新福德 LF-GMR040YSxxxxH-ELS001 Isolated Flicker-free Tri-proof Light LED Driver



Applications

commercial lighting · indoor-office lighting · decorative lighting · residential lighting

Descriptions

LF-GMR040YSxxxxH-ELS001 is a 40W constant current LED driver. Its input voltage ranges from 220 to 240Vac. Its output current is adjustable from 250 to 400mA via DIP switch with every 50mA as a step. It is suitable for Class I light fixtures like tri-proof light and linear light.

Product Model

| LF- GMR040 YS xxxx H- ELS001 | |
|------------------------------|--|
| | ELS: customized serial number H: input voltage 220-240Vac xxxx: output current (e.g. 0400 for 400mA) Y: complies with certifications; S: serial number 040: output power: 40W G: isolated design; MR: indoor metal casing tri-proof light |

Lifud Technology Co., Ltd. 3A, Block B, Building 1, Xingzhan Plaza, No.446, Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong, China Production Base I : Lifud Industrial Park, Meishan City, Sichuan Province Production Base II: Lifud Intelligent Industrial Park, Zhongshan City, Guangdong Province, China Website: www.lifud.com Telephone: +86(0)755 8373 9299

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Electrical Characteristics

| Model | | LF-GMR040YSxxxxH-ELS001 | | | | | | |
|-------------------------------|-------------------------------------|--|---------|---------|--------|-----------|--|--|
| | Output Voltage | 80-150Vdc | 65-133\ | /dc 65- | 114Vdc | 65-100Vdc | | |
| | Output Current | 250mA | 300m | A 3 | 50mA | 400mA | | |
| | Ripple Current (100Hz) | <5% | | | | | | |
| | Flicker Index | Complies with IEEE Std 1789 | | | | | | |
| Output | CIE SVM | ≤0.4 | | | | | | |
| | IEC-Pst | ≤1 | | | | | | |
| | Current Tolerance | \pm 8% | ±8% ±7% | | | | | |
| | Temperature Drift | $\pm 10\%$ | | | | | | |
| | Start-up Time | <0.5S@230Vac | | | | | | |
| | Rated Input Voltage | 220-240Vac | | | | | | |
| | Input Voltage Range | 176-264Vac | | | | | | |
| | Input Frequency | 50-60Hz(47-63Hz) | | | | | | |
| | Input Current | 0.3A Max | | | | | | |
| | PF | ≥0.95 | | | | | | |
| Input | THD | ≤20% | | | | | | |
| | Efficiency | ≥86% | ≥86.5% | | | | | |
| | Inrush Current | ≤20A ^① | | | | | | |
| | Loading Quantities | Model | B10 | C10 | B16 | C16 | | |
| | of Circuit Breaker | Quantity (pcs) | 19 | 22 | 32 | 38 | | |
| | Leakage Current | ≤0.7mA | | | | | | |
| | Open Circuit | <200V No output or damage when powering on 380Vac | | | | | | |
| Protection Characteristics | Over Voltage | | | | | | | |
| | Short Circuit | Hiccup mode(auto-recovery) | | | | | | |
| | Operating Temperature | -30°C - +50°C | | | | | | |
| Environment | Operating Humidity | 0-95%RH (no condensation) | | | | | | |
| Descriptions | Storage Temperature/ Humidity | -30°C - +80°C (6 months in Class I environment); 0-95%RH (no condensation) | | | | | | |
| | Atmospheric Pressure | 86-106kPa | | | | | | |

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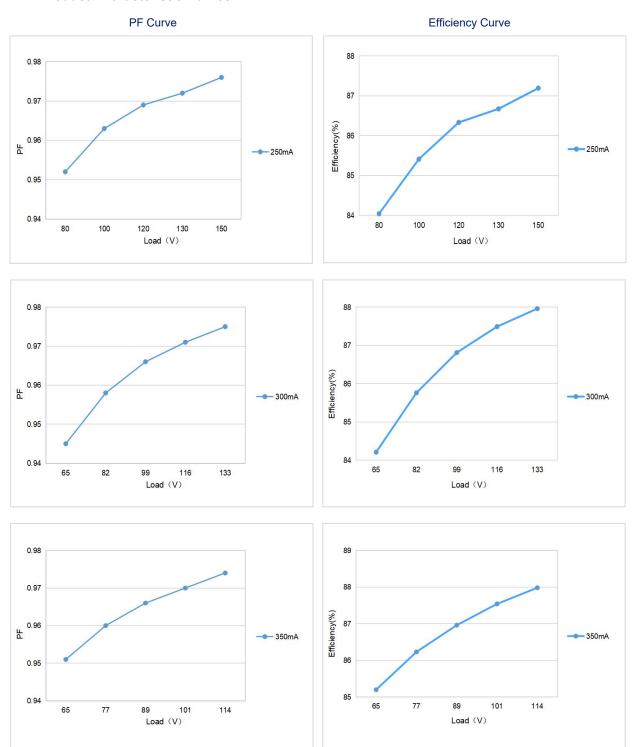
Electrical Characteristics

| Surge | L-N | 1kV | |
|-----------------------|---|---|--|
| Surge | L/N-PG | 2kV | |
| | Certifications | Complies with CE | |
| | Withstand Voltage | I/P-O/P: 3.75kV&5mA&60S; I/P-PG: 1.5kV&5mA&60S; O/P-PG: 0.5kV&5mA&60S | |
| Safety & EMC | Insulation Resistance | I/P-O/P: >100MΩ@500Vdc | |
| Safety Standards | | CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 | |
| | EMI CE-EMC/RCM:EN55015, EN61000-3-2, EN61000-3-3 | | |
| | EMS | CE-EMC/RCM: EN61000-4-2,3,4,5,6,11 | |
| | IP Rating IP20 | | |
| Other | RoHS | RoHS 2.0 (EU) 2015/863 | |
| Parameters | Tc Max | 90°C | |
| | Warranty | 5 years [®] | |
| | Wallanty | 7 years [®] | |
| Test Equipment | DPO3014, DC electron lightning surge gener | ROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix ic load: M9712B, LED board, constant temperature and humidity chamber, rator: Everfine EMS61000-5B, rapid group pulse generator: Everfine banalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free e LFA-3000, etc. | |
| Test Remark | If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, maximum output and input voltage of 230Vac/50Hz. | | |
| Additional Remarks | 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. 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. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 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. It is recommended to install double-pole switch at AC input terminal. If user uses the single-pole switch, make sure to connect it to wire L (live wire), otherwise the afterglow of light fixture would be incurred after the AC is disconnected. Note: ①: @190uS 7 years@Tc≤73°C,failue rate 2.5% 7 years@Tc≤73°C,failue rate 3.5% | | |

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Product Characteristic Curves

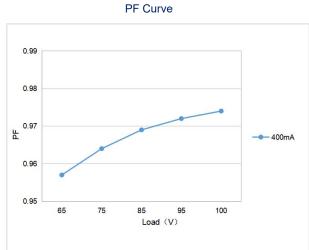


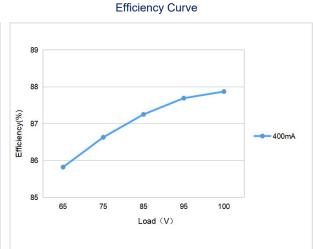
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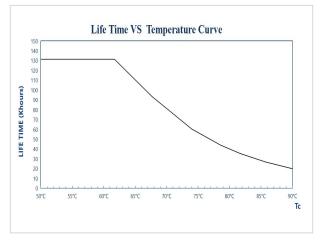
Product Characteristic Curves



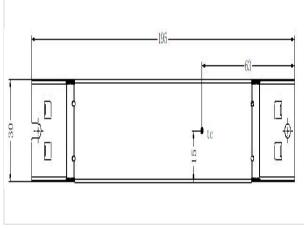


Product Characteristic Curves

Lifetime Curve



Tc Point Testing Diagram



Product Definitions

Product Terminal

| INPUT | | |
|-------|-----------------------|--|
| AC-L | AC live wire input | |
| AC-N | AC neutral wire input | |
| ÷ | Earth wire | |

| OUTPUT | | |
|--------|---|--|
| LED+ | Positive electrode output of LED driver | |
| LED- | Negative electrode output of LED driver | |

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Product Definitions

Product DIP Switch

| I rated (CC) | 1 | 2 | 3 |
|--------------|----|----|----|
| 250mA | - | - | - |
| 300mA | ON | - | - |
| 350mA | - | ON | - |
| 400mA | ON | ON | ON |

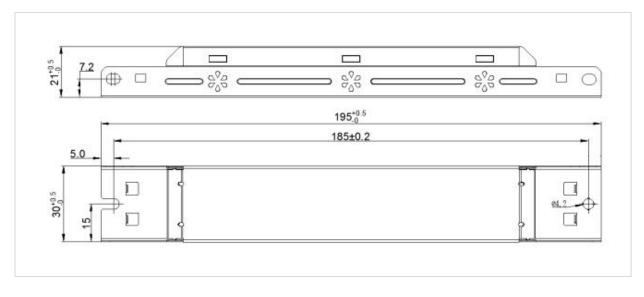
Remark: "-": shift OFF. Please do not use the DIP switch when the LED driver is powered on. If DIP switch function needed, please disconnect input AC power supply first.

Structure & Dimensions (unit: mm)

Product Dimensions

| Model | Overall Appearance (L*W*H) | Distance Between 2 Positioning Holes (L) | Diameter of Positioning Hole (D) |
|-------------------------|----------------------------|---|-------------------------------------|
| LF-GMR040YSxxxxH-ELS001 | 195*30*21 mm(±0.5mm) | 185 mm (\pm 0.2mm) | 4.2 mm |

Structure Diagram



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Packaging Specifications

| Model | LF-GMR040YSxxxxH-ELS001 | |
|-------------|---|--|
| Carton Size | 385*285*210mm (L*W*H) | |
| Quantity | 8 pcs/layer; 6 layers/ctn; 48 pcs/ctn | |
| Weight | 0.14 \pm 5% kg/pc; 7.58 \pm 5% 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 warranty service.

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