

SPECIFICATION FOR APPROVAL

Customer: _____

Product Material No.: _____

Model No.: LF-GIR030YM

Version: V1.0

Customer Approval

| Tested by | Checked by | Approved by |
|-----------|------------|-------------|
| | | |

LIFUD Approval

| Tested by | Checked by | Approved by |
|-----------|------------|-------------|
| | | |

Full Model Numbers Required by the Customer

| | | | |
|----------------|--|----------------|--|
| Full model No. | | Full model No. | |
| Full model No. | | Full model No. | |

E. C. List

| Version | Description of Change | Engineer | Date |
|---------|-----------------------|----------|------------|
| 1.0 | original version | Li Long | 2016-09-21 |

Lifud Technology Co., Ltd

4&5/F, Bldg 14A, Taihua Wutong Island, Gushu, Xixiang St., Bao'an Dist., Shenzhen 518126, China
www.lifud.com | China service hotline: 400-096-6815 (China technical support: 13410240457)

| | | | |
|-------|-------------|--------|-----------------------------|
| Model | LF-GIR030YM | Series | AC220-240V & Cost Effective |
|-------|-------------|--------|-----------------------------|

1. Product Description



Isolated LED Driver for Class II LED Luminaire

Category: AC220-240V, plastic case

Property: simple structure, cost effective

Application: indoor office lighting, decorative lighting, commercial lighting, and residential lighting

Warranty: 5 years (Please refer to the warranty condition.)

Certificate: TUV, CB, CE, RCM



2. Technical Data (1)

| | Full Model Number | LF-GIR030YM0500H | LF-GIR030YM0550H | LF-GIR030YM0600H | LF-GIR030YM0650H |
|-----------------------|-----------------------------------|--|------------------|------------------|------------------|
| Output | Output Voltage | 25-42Vdc | | | |
| | Output Current | 500mA | 550mA | 600mA | 650mA |
| | Ripple Voltage | < 4.0V | | | |
| | Current Tolerance | ±5% | | | |
| | Time to Light | 230Vac < 0.5S | | | |
| | Temperature Drift | ±10% | | | |
| | Line Regulation | ±5% | | | |
| Input | Line Regulation | ±5% | | | |
| | Rated Input Voltage | 220-240 Vac (Max input voltage: 180-264Vac) | | | |
| | Frequency | 47Hz-63Hz | | | |
| | Input Current | 0.25A Max | | | |
| | Power Factor | ≥ 0.95 @ 230Vac | | | |
| | THD | ≤ 20% | | | |
| | Efficiency | ≥ 87% @ 230Vac | ≥ 87% @ 230Vac | ≥ 88% @ 230Vac | ≥ 88% @ 230Vac |
| | In-Rush Current (Peak / Duration) | I < 60A/350uS@230Vac | | | |
| Protective Features | No-Load | Max. output voltage (no-load voltage) 55V | | | |
| | Short-Circuit | Hiccup mode (auto-recovery) | | | |
| Environment Condition | Working Temperature | -30℃ ~ +50℃ | | | |
| | Working Humidity | 20-90% RH (no condensation) | | | |
| | Storage Temperature/Humidity | -40℃ ~ +80℃ (6 months under the class I environment); 10-90% RH (no condensation) | | | |
| | Atmospheric Pressure | 86-106KPa | | | |
| Safety and Norms | Certificate | TUV, CB, CE, RCM | | | |
| | Hi-pot Test | I/P-O/P: 3.75KVac, < 5mA, 60S | | | |
| | Insulation | I/P-O/P: 500VDC, >100MΩ | | | |
| | Surge Level | Comply with IEC61000-4-5 (L/N:1KV) | | | |
| | EMI | Comply with EN55015, EN61000-3-2 | | | |
| | EMS | Comply with EN61000-4-2,3,4,5,6,8,11; EN61547 | | | |
| Others | Packing (Weight) | Net weight: 90g±5%/pc; 98pcs/ctn; 9KG±5%/ctn; Carton size: 38 x 28 x 30 cm (L*W*H) | | | |
| | IP Level | IP20 | | | |
| | Warranty Condition | 5 years (Max. case temperature must not exceed 85℃) | | | |

| | | | |
|-------|-------------|--------|-----------------------------|
| Model | LF-GIR030YM | Series | AC220-240V & Cost Effective |
|-------|-------------|--------|-----------------------------|

| | |
|---------------------------|--|
| Testing Equipment | 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: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc. |
| Test Conditions | The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25℃ and humidity 50%, AC input 230V and 90% DC load. |
| Additional Remarks | <p>1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity.</p> <p>2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.</p> <p>3. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wire routing of the light fixture are also relevant. Thus we strongly recommend the manufacturer of the finished LED light fixture re-confirm the EMC of the LED light fixture.</p> |

Technical Data (2)

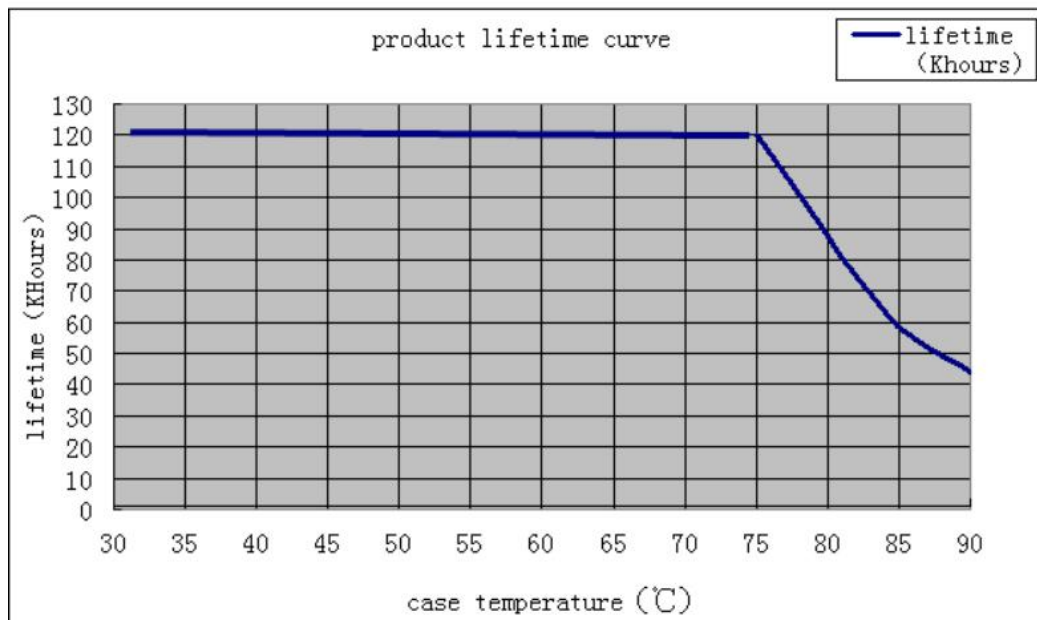
| | Full Model Number | LF-GIR030YM0700H | LF-GIR030YM0750H |
|------------------------------|-----------------------------------|--|------------------|
| Output | Output Voltage | 25-42Vdc | |
| | Output Current | 700mA | 750mA |
| | Ripple Voltage | < 4.0V | |
| | Current Tolerance | ±5% | |
| | Time to Light | 230Vac < 0.5S | |
| | Temperature Drift | ±10% | |
| | Line Regulation | ±5% | |
| Input | Line Regulation | ±5% | |
| | Rated Input Voltage | 220-240 Vac (Max input voltage: 180-264Vac) | |
| | Frequency | 47Hz-63Hz | |
| | Input Current | 0.30A Max | |
| | Power Factor | ≥ 0.95 @ 230Vac | |
| | THD | ≤ 20% | |
| | Efficiency | ≥ 88% @ 230Vac | |
| | In-Rush Current (Peak / Duration) | I < 60A/350uS@230Vac | |
| Protective Features | Typ. Power Input on Stand-By | Pin < 1W | |
| | No-Load | Max. output voltage (no-load voltage) 55V | |
| Environment Condition | Short-Circuit | Hiccup mode (auto-recovery) | |
| | Working Temperature | -30℃ ~ +50℃ | |
| | Working Humidity | 20-90% RH (no condensation) | |
| | Storage Temperature/Humidity | -40℃ ~ +80℃ (6 months under the class I environment); 10-90% RH (no condensation) | |
| Safety and Norms | Atmospheric Pressure | 86-106KPa | |
| | Certificate | TUV, CB, CE, RCM | |
| | Hi-pot Test | I/P-O/P: 3.75KVdc, < 5mA, 60S | |
| | Insulation | I/P-O/P: 500VDC, >100MΩ | |
| | Surge Level | Comply with IEC61000-4-5 (L/N:1KV) | |
| | EMI | Comply with EN55015, EN61000-3-2 | |
| Others | EMS | Comply with EN61000-4-2,3,4,5,6,8,11; EN61547 | |
| | Packing (Weight) | Net weight: 90g±5%/pc; 98pcs/ctn; 9KG±5%/ctn; Carton size: 38 x 28 x 30 cm (L*W*H) | |
| | IP Level | IP20 | |
| | Warranty Condition | 5 years (Max. case temperature must not exceed 85℃) | |

| | | | |
|--------------|-------------|---------------|-----------------------------|
| Model | LF-GIR030YM | Series | AC220-240V & Cost Effective |
|--------------|-------------|---------------|-----------------------------|

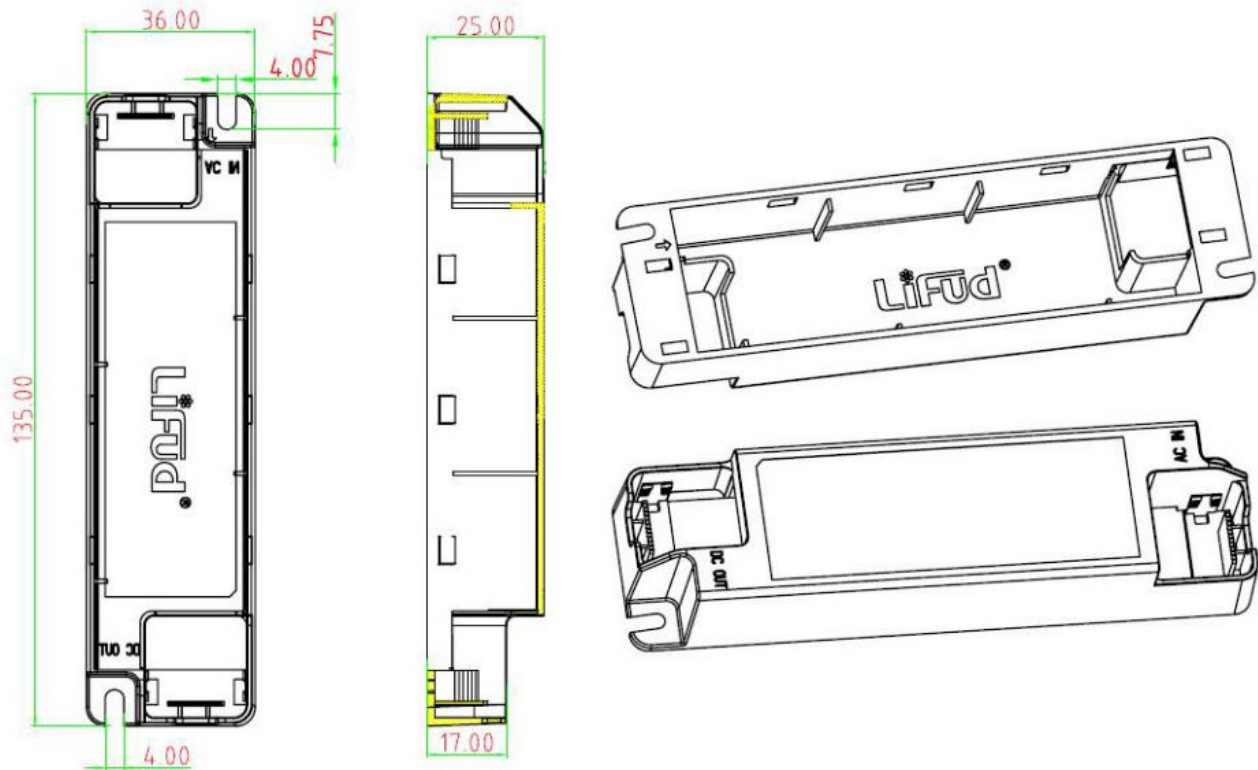
| | |
|---------------------------|--|
| Testing Equipment | AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc. |
| Test Conditions | The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25℃ and humidity 50%, AC input 230V and 90% DC load. |
| Additional Remarks | <p>1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity.</p> <p>2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.</p> <p>3. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wire routing of the light fixture are also relevant. Thus we strongly recommend the manufacturer of the finished LED light fixture re-confirm the EMC of the LED light fixture.</p> |

3. Product Referenced Lifetime Curve

The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40℃, 50℃, 60℃, 70℃, 80℃ and 90℃.



4. Dimensional Drawing (unit: mm, tolerance: ± 0.5 mm)



5. Wiring Diagram:



| | | | |
|-------|-------------|--------|-----------------------------|
| Model | LF-GIR030YM | Series | AC220-240V & Cost Effective |
|-------|-------------|--------|-----------------------------|