

## Specification

Customer: \_\_\_\_\_

Product Material No.: \_\_\_\_\_

Model No.: LF-GMR075YV

Version: V1.2

### Customer Approval

| Examination | Review | Approve |
|-------------|--------|---------|
|             |        |         |

### LIFUD Approval

| Drafting    | Review    | Approve       |
|-------------|-----------|---------------|
| Li Shuaihua | Xiao Hong | Zhong Chunlin |

### Full Model Numbers Required by the Customer

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

### E.C. List

| Version | Change Description       | Engineer      | Date       |
|---------|--------------------------|---------------|------------|
| 1.0     | initial version          | Tang Xiangmao | 2018-07-10 |
| 1.1     | Updated company address. | Zhou Zhiqiang | 2018-11-07 |
| 1.2     | Added end caps.          | Zhou Zhiqiang | 2019-02-21 |
|         |                          |               |            |

### Lifud Technology Co., Ltd.

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|       |             |        |                                    |
|-------|-------------|--------|------------------------------------|
| Model | LF-GMR075YV | Series | Linear Constant Voltage LED Driver |
|-------|-------------|--------|------------------------------------|

## 1. Product Description



**Isolated LED Driver for Class I LED Light Fixture**

**Category:** AC220-240V, flicker free

**Property:** high PF, high efficiency, low THD, flicker coefficient  $\leq 1\%$

**Application:** indoor office lighting, commercial lighting & decorative lighting

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

**Certificate:** TUV-CE, CB, RCM, SAA, CCC

## 2. Technical Data

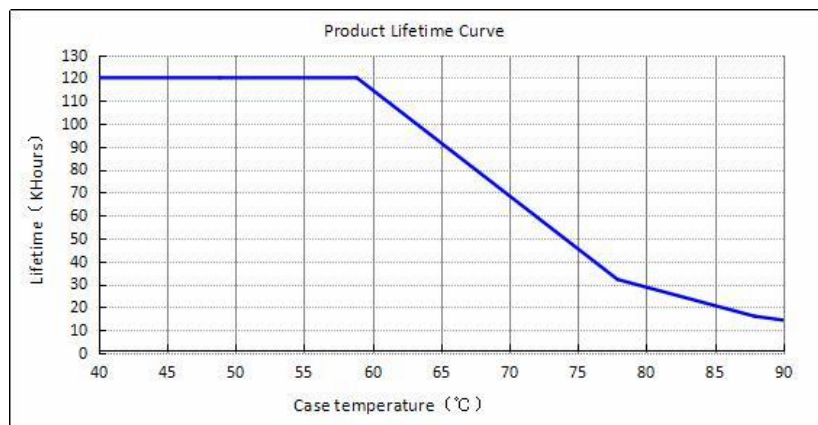
|                       | Full Model Number           | LF-GMR075YV024A                                                                                       | LF-GMR075YV012A                                     |
|-----------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Output                | Output Voltage              | 24VDC                                                                                                 | 12VDC                                               |
|                       | Output Current              | 3125mA max.                                                                                           | 6250mA max.                                         |
|                       | Ripple Voltage              | < 1V                                                                                                  |                                                     |
|                       | Voltage Tolerance           | 24 $\pm$ 0.5V                                                                                         | 12 $\pm$ 0.3V                                       |
|                       | Time to Light               | <0.5S @230Vac                                                                                         |                                                     |
|                       | Temperature Drift           | $\pm 10\%$                                                                                            |                                                     |
|                       | Line Regulation             | $\pm 5\%$                                                                                             |                                                     |
| Input                 | Line Regulation             | $\pm 5\%$                                                                                             |                                                     |
|                       | Rated Input Voltage         | AC: 220-240Vac (Limit voltage: 200-264Vac)                                                            |                                                     |
|                       | Frequency                   | 47Hz-63Hz                                                                                             |                                                     |
|                       | Input Current               | 0.60A Max                                                                                             |                                                     |
|                       | Power Factor                | $\geq 0.96/200Vac$                                                                                    |                                                     |
|                       |                             | $\geq 0.97/230Vac$                                                                                    |                                                     |
|                       |                             | $\geq 0.96/264Vac$                                                                                    |                                                     |
|                       | THD                         | $\leq 20\%$                                                                                           |                                                     |
|                       | Efficiency                  | $\geq 88.5\%/200Vac$                                                                                  |                                                     |
|                       |                             | $\geq 88.5\%/230Vac$                                                                                  |                                                     |
|                       |                             | $\geq 88.0\%/264Vac$                                                                                  |                                                     |
|                       | In-Rush Current             | <80A/500uS@230Vac                                                                                     |                                                     |
|                       | Stand-by Power              | $\leq 1W@230Vac$                                                                                      |                                                     |
| Protective Feature    | Over-Voltage                | $\leq 35V$ (Cut off output voltage. Auto-recovery.)                                                   | $\leq 16V$ (Cut off output voltage. Auto-recovery.) |
|                       | Over-Load                   | 108%-150% (auto-recovery)                                                                             |                                                     |
|                       | Short-Circuit               | Hiccup mode (auto-recovery)                                                                           |                                                     |
| Environment Condition | Working Temperature         | $-30^{\circ}C \sim +50^{\circ}C$                                                                      |                                                     |
|                       | Working Humidity            | 20-90%RH (no condensation)                                                                            |                                                     |
|                       | Storage Temperature/Humidit | $-40^{\circ}C \sim +80^{\circ}C$ (6 months under the class I environment); 10-90%RH (no condensation) |                                                     |
|                       | Atmospheric Pressure        | 86-106KPa                                                                                             |                                                     |
| Safety & Norm         | Certificate                 | TUV-CE, CB, RCM, SAA, CCC                                                                             |                                                     |
|                       | Hi-Pot Test                 | I/P-O/P: 3.75KVac, <5mA 60S; I/P-FG: 1.6KVac, <5mA 60S; O/P-FG: 0.5KVac, <5mA 60S                     |                                                     |
|                       | Insulation Resistance       | I/P-O/P, I/P-FG, O/P-FG: 500VDC, >100M $\Omega$                                                       |                                                     |
|                       | Surge Rating                | Meet standards of IEC61000-4-5 (L-N:1KV; L/N-PG:2KV)                                                  |                                                     |
|                       | EMI                         | Meet standards of EN55015, EN61000-3-2                                                                |                                                     |
|                       | EMS                         | Meet standards of EN61000-4-2,3,4,5,6,8,11; EN61547                                                   |                                                     |
| Others                | Packing (Weight)            | Carton size: 33 x 32 x 21 cm (L*W*H); Net weight: 265g $\pm$ 5%/pc; 15.4KG $\pm$ 5%/ctn; 56pcs/ctn    |                                                     |
|                       | IP Rating                   | IP20                                                                                                  |                                                     |
|                       | Warranty Condition          | 5 years (Max. case temperature must not exceed 75 $^{\circ}C$ )                                       |                                                     |

|              |             |               |                                    |
|--------------|-------------|---------------|------------------------------------|
| <b>Model</b> | LF-GMR075YV | <b>Series</b> | Linear Constant Voltage LED Driver |
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|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Testing 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: TH9201B, stroboscope (flicker coefficient tester) 60N-01, etc.                                                                                                                                                                                                                                                                                                                                          |
| <b>Testing Condition</b> | Unless otherwise stated, the electrical parameters above, including the power factor, THD and efficiency, are tested under the ambient temperature 25℃ and humidity 50%, input 230Vac and 90% load.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Additional Remark</b> | <ol style="list-style-type: none"> <li>1. It is recommended that the customer install an over-under-voltage protection and surge protection device in the fixture's power supply loop to ensure safe use of electricity.</li> <li>2. The PC cover, outer housing, end caps and other accessory used for assembling the LED driver in the LED luminaire must conform to the fire rating of UL94 V-0 and above.</li> <li>3. The driver is used as a component of the whole fixture and used with other lighting components (LED board, wires, heat sinks, etc). Because the EMC performance is affected by the light fixtures and the wiring, the manufacturer of light fixture needs to re-evaluate the whole device's EMC.</li> </ol> |

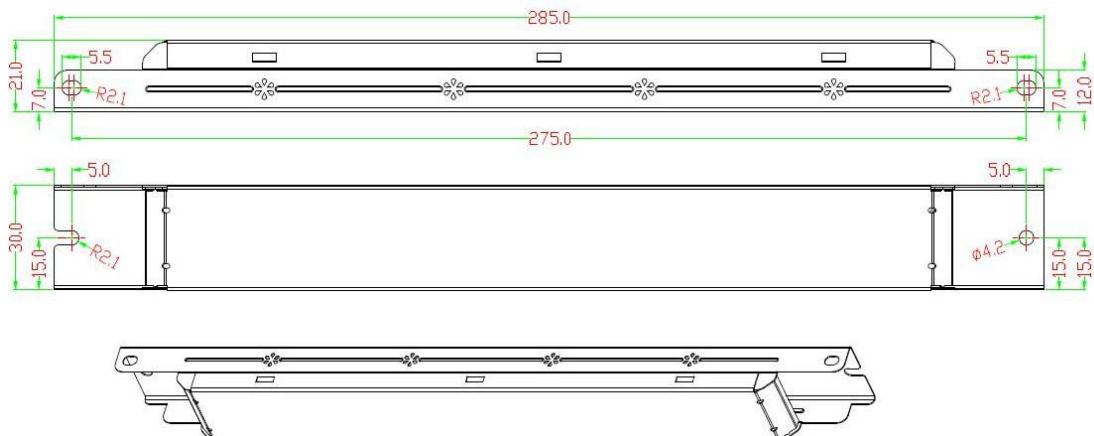
### 3. Product Lifetime Curve

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



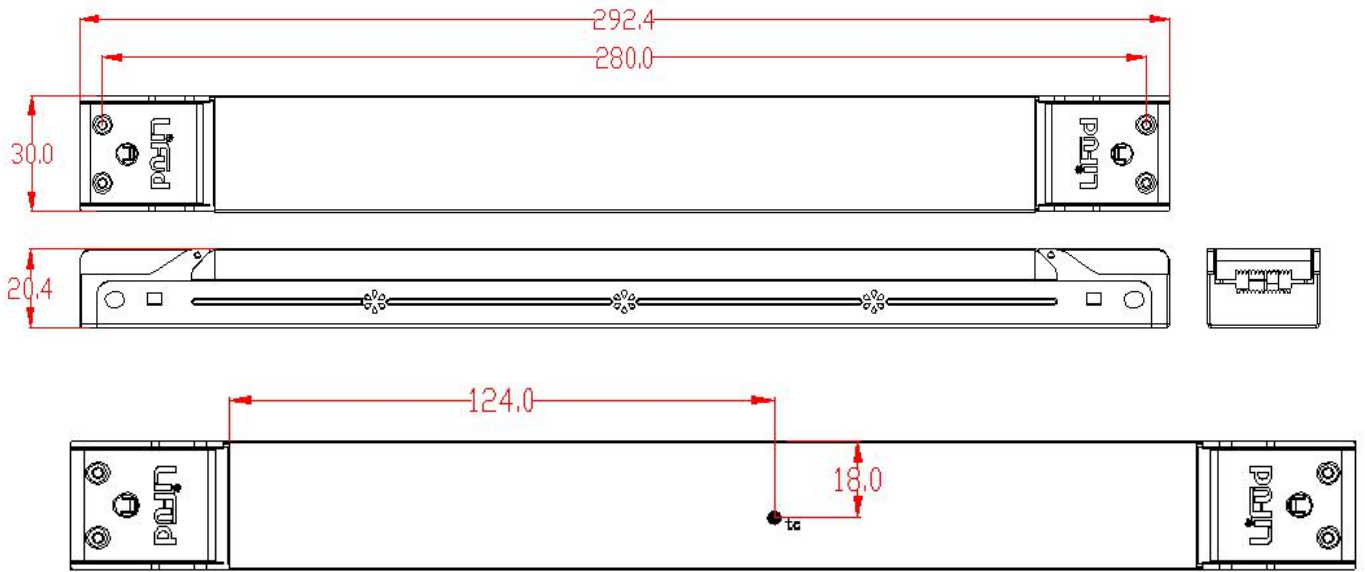
#### 4. Dimensional Drawing (Unit: mm; Tolerance: +0.5mm)

#### 4.1 Dimension of the Housing

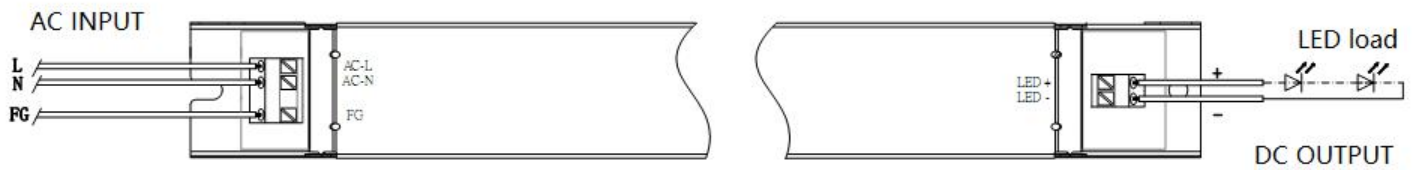


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#### 4.2 Dimension of the Housing & the End Caps



#### 5. Wiring Diagram:



|              |             |               |                                    |
|--------------|-------------|---------------|------------------------------------|
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