

## 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-GIR050YM1300H	LF-GIR050YM1200H	LF-GIR050YM1100H	LF-GIR050YM1050H
<b>Output</b>	Output Voltage	25-42Vdc			
	Output Current	1300mA	1200mA	1100mA	1050mA
	Ripple Voltage	< 5.0V			
	Current Tolerance	±5%			
	Time to Light	230Vac < 0.5S			
	Temperature Drift	±10%			
	Line Regulation	±5%			
<b>Input</b>	Line Regulation	±5%			
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)			
	Frequency	47Hz-63Hz			
	Input Current	0.40A Max			
	Power Factor	≥ 0.95/180Vac	≥ 0.95/230Vac full load	≥ 0.90/264Vac	
	THD	≤ 20%			
	Efficiency	≥ 89% @ 230Vac			
	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac			
Typ. Power Input on Stand-By	Pin < 1W				
<b>Protective Features</b>	No-Load	Max. output voltage (no-load voltage) 55V			
	Short-Circuit	Hiccup mode (auto-recovery)			
<b>Environment Condition</b>	Working Temperature	-30°C ~ +50°C			
	Working Humidity	20-90% RH (no condensation)			
	Storage Temperature/Humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90% RH (no condensation)			
	Atmospheric Pressure	86-106KPa			
<b>Safety and Norms</b>	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			
<b>Others</b>	Packing (Weight)	Net weight: 122g±5%/pc; 66pcs/ctn; 9KG±5%/ctn; Carton size: 39 x 29 x 21 cm (L*W*H)			
	IP Level	IP20			
	Warranty Condition	5 years (Max. case temperature must not exceed 70°C)			

<b>Model</b>	LF-GIR050YM	<b>Series</b>	AC220-240V & Cost Effective
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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, flicker-free tester (flicker-free coefficient tester) 60N-01, etc.
<b>Test Conditions</b>	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% DC load.
<b>Additional Remarks</b>	<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>

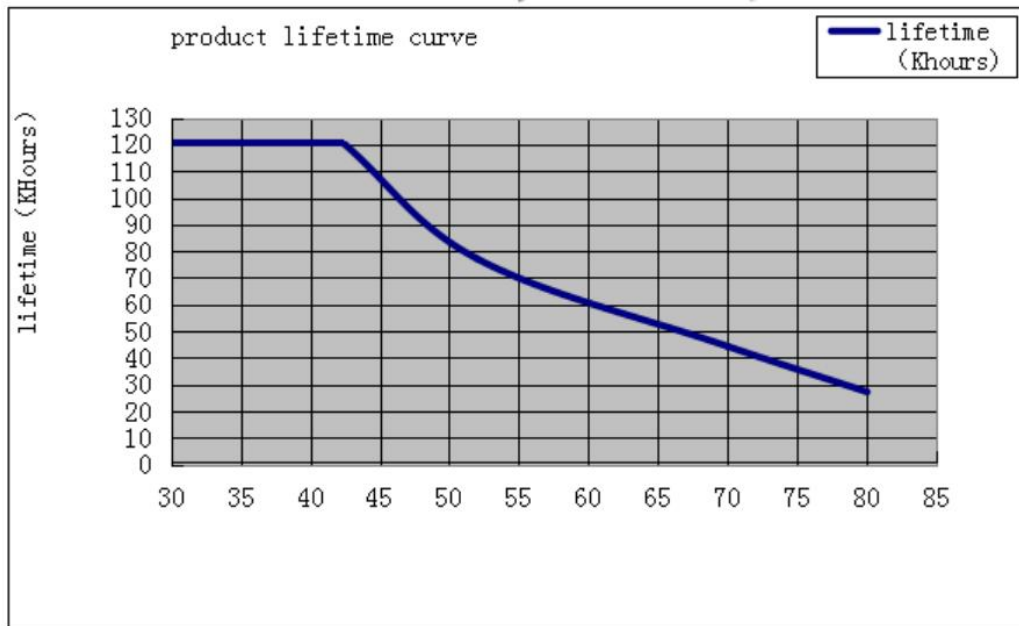
## Technical Data (2)

	<b>Full Model Number</b>	LF-GIR050YM0900H	LF-GIR050YM0850H	LF-GIR050YM0800H
<b>Output</b>	Output Voltage	40-55Vdc		
	Output Current	900mA	850mA	800mA
	Ripple Voltage	< 5.0V		
	Current Tolerance	±5%		
	Time to Light	230Vac < 0.5S		
	Temperature Drift	±10%		
	Line Regulation	±5%		
<b>Input</b>	Line Regulation	±5%		
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)		
	Frequency	47Hz-63Hz		
	Input Current	0.40A Max		
	Power Factor	≥ 0.95/180Vac	≥ 0.95/230Vac full load	≥ 0.90/264Vac
	THD	≤ 20%		
	Efficiency	≥ 89% @ 230Vac		
	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac		
Typ. Power Input on Stand-By	Pin < 1W			
<b>Protective Features</b>	No-Load	Max. output voltage (no-load voltage) 70V		
	Short-Circuit	Hiccup mode (auto-recovery)		
<b>Environment Condition</b>	Working Temperature	-30°C ~ +50°C		
	Working Humidity	20-90% RH (no condensation)		
	Storage Temperature/Humidi	-40°C ~ +80°C (6 months under the class I environment); 10-90% RH (no condensation)		
	Atmospheric Pressure	86-106KPa		
<b>Safety and Norms</b>	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		
<b>Others</b>	Packing (Weight)	Net weight: 120g±5%/pc; 66pcs/ctn; 8.8KG±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 70°C)		

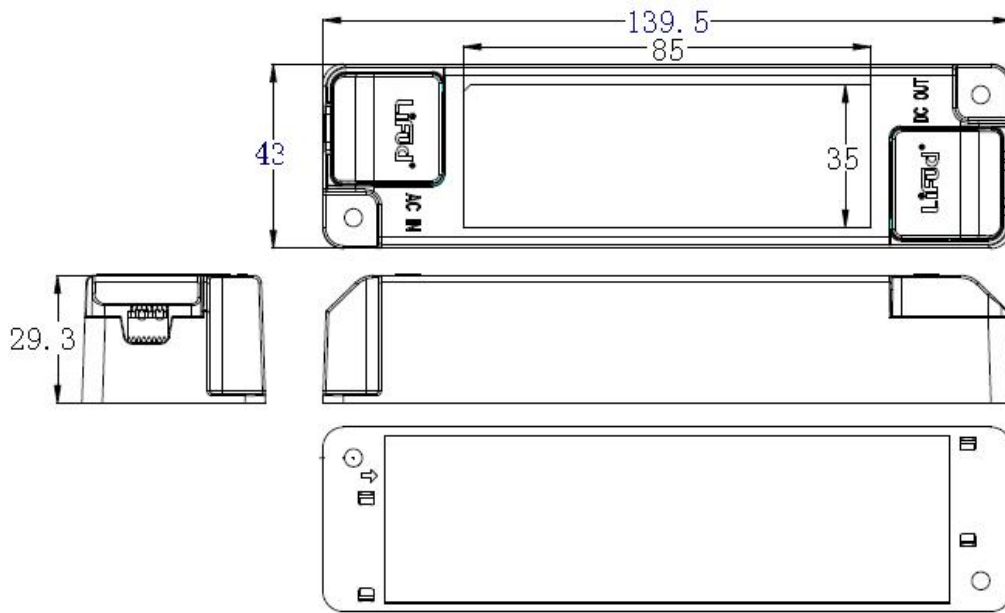
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<b>Test Conditions</b>	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% DC load.
<b>Additional Remarks</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> </ol>

### 3. Product Referenced 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 90°C.



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



5. Wiring Diagram:



Model	LF-GIR050YM	Series	AC220-240V & Cost Effective
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