

SPECIFICATION FOR APPROVAL

Customer: _____

Product Material No.: _____

Model No.: LF-GIR022YM

Version: V1.2

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
0.1	original version	Huang Chao	2016-12-08
1.0	formal version	Huang Chao	2017-03-03
1.1	Revised the dimensions.	Huang Chao	2017-04-12
1.2	Revised the lifetime curve.	Huang Chao	2017-05-15

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Model	LF-GIR022YM	Series	AC220-240V & Cost Effective
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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, CCC



2. Technical Data

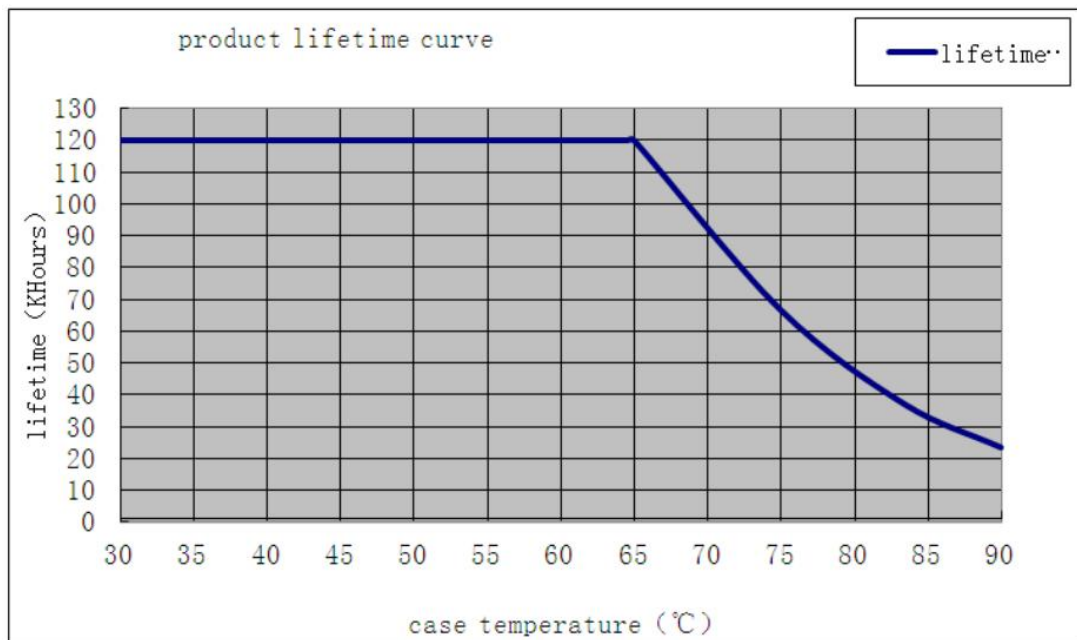
	Full Model Number	LF-GIR022YM0550H	LF-GIR022YM0500H	LF-GIR022YM0450H	LF-GIR022YM0400H
Output	Output Voltage	25-40Vdc			
	Output Current	550mA	500mA	450mA	400mA
	Ripple Voltage	< 4.0V			
	Current Tolerance	±5%			
	Time to Light	230Vac < 0.5S			
	Temperature Drift	±10%			
	Line Regulation	±5%			
Input	Line Regulation	±5%			
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)			
	Frequency	47Hz-63Hz			
	Input Current	0.20A Max			
	Power Factor	≥ 0.95 @ full load			
	THD	≤ 18%			
	Efficiency	≥ 85%			
	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/Humidi	-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, CCC			
	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: 60g±5%/pc; 160pcs/ctn; 9.6KG±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 78℃)			

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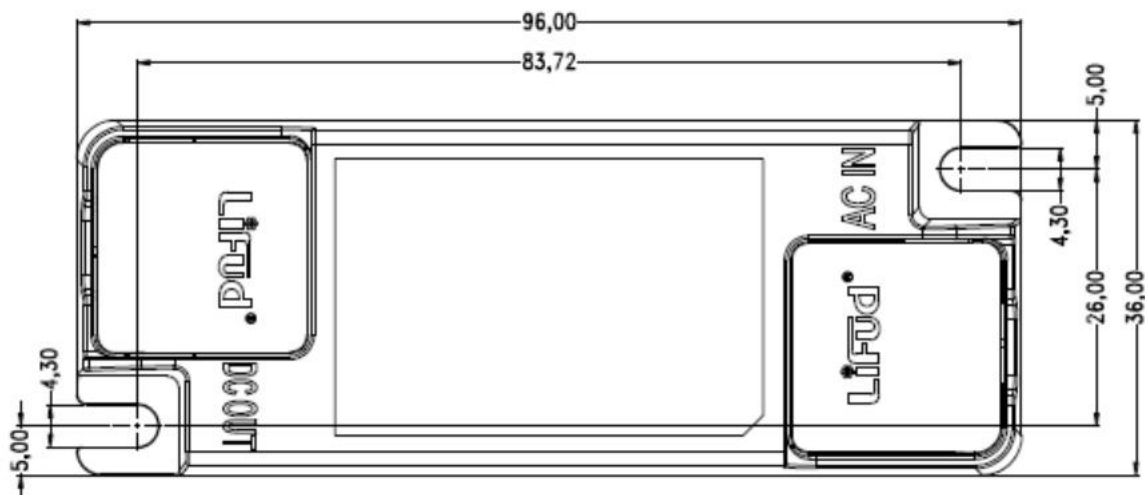
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: 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	<ol style="list-style-type: none"> 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. 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. 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.

3. Product Referenced Lifetime Curve

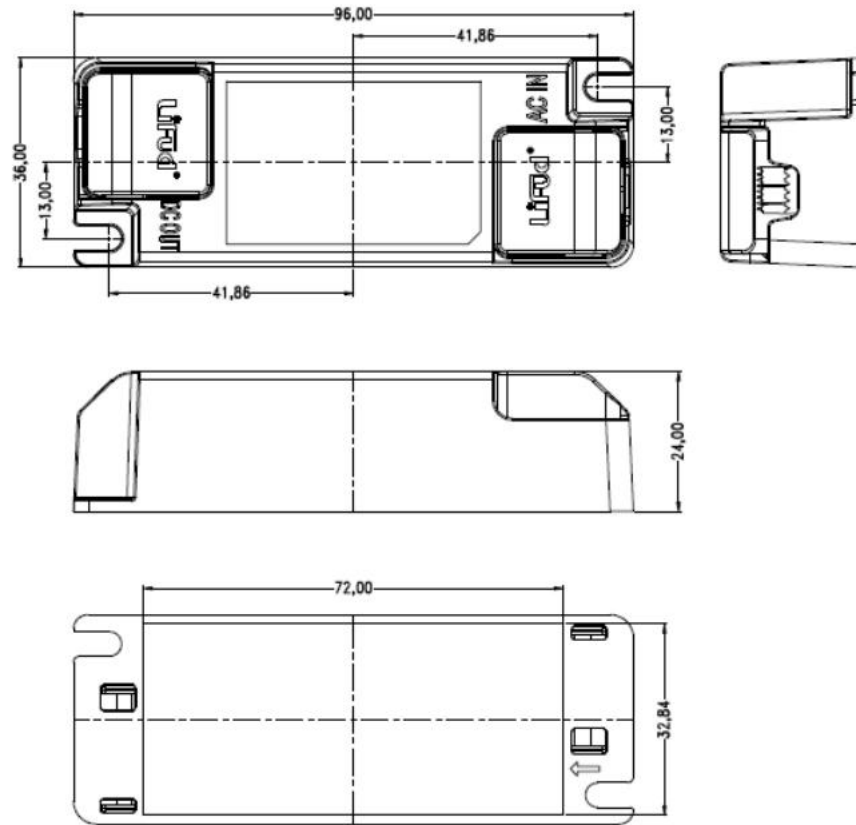
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40℃, 50℃, 60℃, 70℃, 80℃ and 90℃.



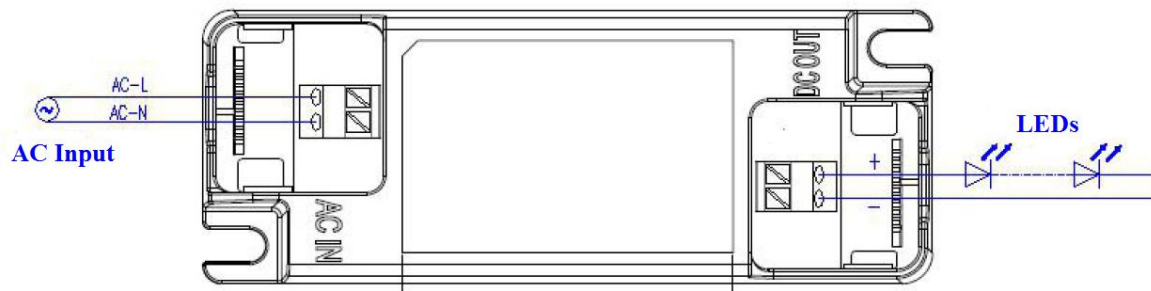
4. Dimensional Drawing (unit: mm, tolerance: ±0.5mm)



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5. Wiring Diagram:



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