

SPECIFICATION FOR APPROVAL**Customer:** _____**Product Material No. :** _____**Model No.** _____ **LF-GIR011YS** _____**Version :** _____ **V3.2** _____**Manufacturer:** _____ **Sichuan Ledfriend Technology Co., Ltd** _____**Customer Approval**

Tested by	Checked by	Approved by

Ledfriend Approval

Tested by	Checked by	Approved by

The full model numbers required by customers

Full model No.		Full model No.	
Full model No.		Full model No.	

E.C. List

Version	Description of change	Engineer	Date
3.0	original release	Zhou Ziqiang	2015-11-9
3.1	Upgrade the THD, efficiency and PF	Luo Chao	2015-11-26
3.2	ENEC added	Luo Chao	2016-6-2

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Model	LF-GIR011YS	Series	flicker-free AC220-240V plastic case
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1. Product description



Isolated LED driver suitable for class II LED luminaires.

Category: flicker-free AC220-240V plastic case series.

Product properties: passive PFC, high PF, high efficiency, low THD and flicker-free.

Application: commercial, residential and decorative lighting.

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

Certifications:



2. Technical data

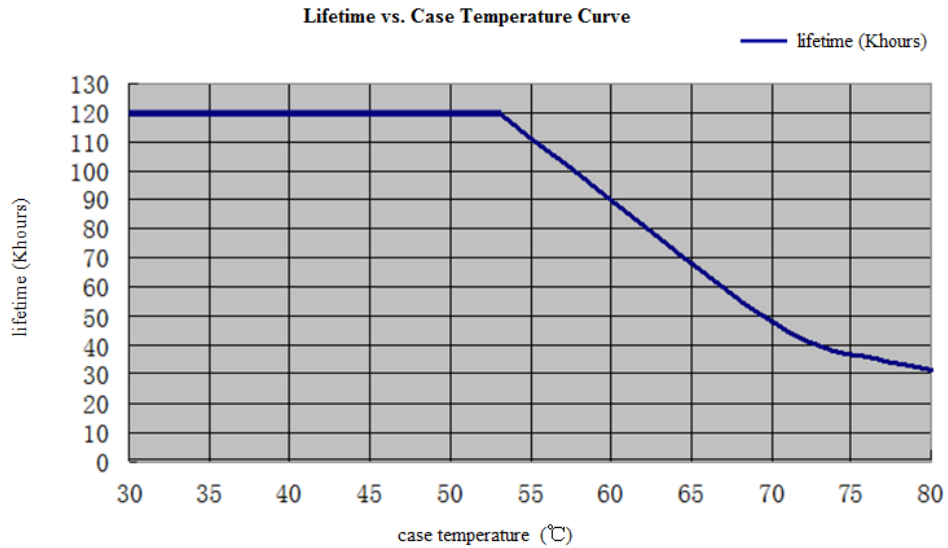
	Full model number	LF-GIR011YS 0120H	LF-GIR011YS 0220H	LF-GIR011YS 0250H	LF-GIR011YS 0300H	LF-GIR011YS 0350H
Output	Output voltage	27-42 VDC			18-33 VDC	
	Output current	120mA	220mA	250mA	300mA	350mA
	Ripple voltage	<1V				
	Current tolerance	±12%	±7%			
	Time to light	230Vac <0.5S				
	Temperature drift	±12%				
	Output Line regulation	±12%	±7%			
Input	Input Line regulation	±12%	±7%			
	Rated input voltage	220-240 Vac (Max input voltage: 198-264Vac)				
	Frequency	47Hz-63Hz				
	Input current	0.2A Max				
	Power factor	/	/	/	/	/
	THD	/	/	/	/	/
	Efficiency	≥64%/230Vac	≥79%/230Vac	≥79%/230Vac	≥79%/230Vac	≥79%/230Vac
	In-rush current (peak /duration)	I<60A/300uS@230Vac				
Typ. power input on stand-by	Pin<1W					
Protective features	No-load	Max. output voltage (no-load voltage) 55V			Max. output voltage (no-load voltage) 50V	
	Short-circuit	Hiccup mode (auto-recovery)				
Environment condition	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				
Safety and norms	Certifications	ENEC, TUV_GS, CE, CB, RCM, SAA, CCC				
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S				
	Insulation resistance	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: 55g±5%/pc; 160pcs/carton; 9.8KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).				
	IP level	IP20				
	Warranty condition	5 years (Max. case temperature must not exceed 65°C).				
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°C and humidity 50%, AC input 230V and 90% output load.					
Additional	1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge					

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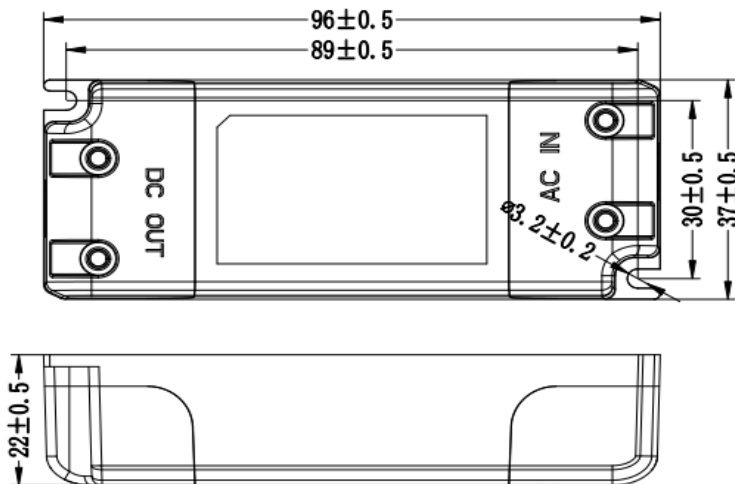
Remark	<p>protection device to ensure the safety of using electricity.</p> <p>2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.</p> <p>3. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.</p>
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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 80°C.



4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram:



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