## SPECIFICATION FOR APPROVAL

Customer:

Product Materia	l No.:	
Model No.:	Model No.: LF-GIF015YA	
Version:	V1.1	
Manufacturer: _	Sichuan Ledfriend Technology Co	o., Ltd
Customer Approval	Charled by	Ammunod ha
Tested by	Checked by	Approved by
Ledfriend Approval		
<b>Tested by</b>	Checked by	Approved by
Huang Chao	Liao Xinggao	Zhou Xiaoliang
The full model numbers re	equired by customers	
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	2017-02-08
1.0	Formal version	Huang Chao	2017-03-03
1.1	Warranty condition is updated.	Huang Chao	2017-05-11

## Shenzhen Ledfriend Optoelectronics Co., Ltd

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Model	LF-GIF015YA	Series	AC220-240V & Flicker-Free
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## 1. Product description



#### Isolated LED driver for class II LED luminaire.

Category: AC220-240V, plastic case, flicker free

**Properties**: flicker coefficient ≤1%, simple structure, active PFC,

high PF, high efficiency, low THD

Application: indoor office lighting, decorative lighting, commercial lighting

and residential lighting

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

Certificate: ENEC, TUV, CE, CB, RCM, SAA, CCC











## 2. Technical data

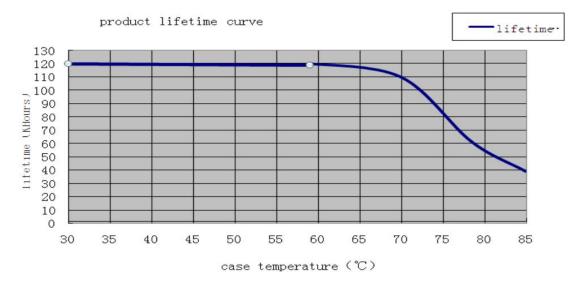
	Full model number	LF-GIF015YA0350H	LF-GIF015YA0300H	LF-GIF015YA0250H	
	Output voltage		25-40Vdc		
	Output current	350mA	300mA	250mA	
	Ripple voltage	< 1V			
Output	Current tolerance	±5%			
Ծաւթաւ	Time to light	230Vac <0.5S			
	Temperature drift	±10%			
	Line regulation	±5%			
	Line regulation	±5%			
	Rated input voltage	220-240 Vac (Max input voltage:	180-264Vac)		
	Frequency	47Hz-63Hz			
	Input current	0.1A Max			
	Power Factor	≥0.90/230Vac			
	THD	≤18%			
T4	Efficiency	≥83%/230Vac			
Input	In-rush current (peak /duration)	I<60A/350uS@230Vac			
	Typ. power input on stand-by	Pin≤1W			
Protective	No-load	Max. output voltage (no-load voltage) 55Vdc  Hiccup mode (auto-recovery)			
features	Short-circuit				
	Working temperature	emperature $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$			
T	Working humidity	nidity 20-90%RH (no condensation)			
Environment condition	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)			
	Atmospheric pressure 86-106KPa				
	Certifications	ENEC, TUV, CE, CB, RCM, SAA, CCC			
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S			
Safety and	Insulation resistance	resistance I/P-O/P: $500$ VDC, $>100$ M $\Omega$			
norms	Surge level				
	EMI				
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547.			
	Packing (weight)	Net weight: 58g ±5%/pc; 160pcs/ctn; 9.28kg±5%/ctn; Carton size: 39 x 29 x 21 cm (L*W*H).			
Others	IP level	IP20			
- Cilicis	Warranty condition	5 years (Max. case temperature m	ust not exceed 82°C).		

Model	LF-GIF015YA	Series	AC220-240V & Flicker-Free
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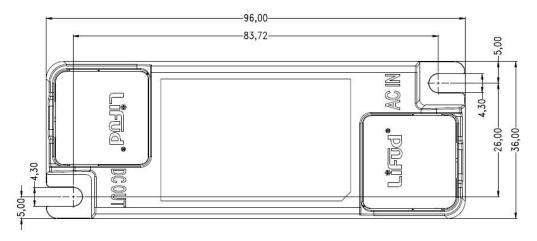
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: 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°C and humidity 50%, AC input 230V and 90% DC load.
Additional Remark	I. 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.     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.     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.

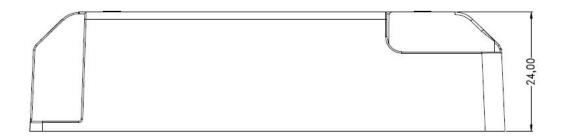
## 3. Product Referenced Lifetime Curve

The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches  $40^{\circ}\text{C}$ ,  $50^{\circ}\text{C}$ ,  $60^{\circ}\text{C}$ ,  $70^{\circ}\text{C}$ ,  $80^{\circ}\text{C}$  and  $90^{\circ}\text{C}$ .



## 4. Dimensional Drawing (unit: mm)





## 5. Wire Connection Diagram:

