

SPECIFICATION FOR APPROVAL

Customer:		
Product Material	No.:	
Model No.	LF-GIR016YS	
Version :	V3.2	
Manufacturer:	Sichuan Ledfriend Technology Co	o., Ltd
Customer Approval		
Tested by	Checked by	Approved by
Ledfriend Approval		
Tested by	Checked by	Approved by
The full model numbers req	uired 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

Shenzhen Ledfriend Optoelectronics Co., Ltd.

4&5/F, Bldg 14A, Taihua Wutong Island, Gushu Development Zone, Xixiang Street, Bao'an District, Shenzhen, China 518126

www.lifud.com, China service hotline: 400-096-6815 (China technical support: 13410244507)

Model	LF-GIR016YS	Series	flicker-free AC220-240V plastic case	
-------	-------------	--------	--------------------------------------	--



Shenzhen Ledfriend Optoelectronics Co., Ltd.

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-GIR016YS 0300H	LF-GIR016YS 0350H	LF-GIR016YS 0400H	LF-GIR016YS 0450H		
	Output voltage	27-42	2 VDC	18-33VDC			
Output	Output current	300mA	350mA	400mA	450mA		
	Ripple voltage	<1V					
	Current tolerance	±7%					
	Time to light	230Vac < 0.5S					
	Temperature drift	±10%					
	Output Line regulation	±7%					
	Input Line regulation	±7%					
	Rated input voltage		input voltage: 198-26	4Vac)			
	Frequency	47Hz-63Hz					
	Input current	0.2A Max					
	Power factor	/	/	/	/		
Input	THD	/	/	/	/		
	Efficiency	≥82%/230Vac	≥82%/230Vac	≥83%/230Vac	≥83%/230Vac		
	In-rush current (peak /duration)	I<60A/300uS@230	Vac				
	Typ. power input on stand-by	Pin<1W					
Protective	No-load	Max. output voltag	ge (no-load voltage)	Max. output voltag	ge (no-load voltage)		
features	Short-circuit	Hiccup mode (auto-	-recovery)				
	Working temperature	-30°C - +50°C					
Environment	Working humidity	20-90%RH (no condensation)					
condition	Storage	-40°C ~ +80°C (6 m	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no				
	temperature/humidity	condensation)					
	Atmospheric pressure	86-106KPa					
	Certifications	ENEC, TUV_GS, O	ENEC, TUV_GS, CE, CB, RCM, SAA, CCC				
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S					
Safety and	Insulation resistance	I/P-O/P: 500VDC, >100MΩ					
norms	Surge level	Comply with IEC61000-4-5(L/N: 1KV)					
	EMI	Comply with EN55	Comply with EN55015, EN61000-3-2.				
	EMS	Comply with EN61	000-4-2, 3, 4, 5, 6, 8,	11; EN61547.			
Packing (weight) Net weight: 60g±5%/pc; 160pcs/carton; 11.3k 29 x 21 cm (L xWxH).			; 11.3KG±5%/carton	. Carton size: 39 x			
Others	IP level	IP20					
	Warranty condition	5 years (Max. case temperature must not exceed 65°C).					
Testing equipment	electronic load: M9712B, Everfine EMS61000-5B, rap tester: TH9201B, flicker-fre	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	The parameters above include	ding the power factor,	ΓHD, efficiency are al	l tested under the aml	pient temperature 25		
conditions	°C and humidity 50%, AC i	nput 230V and 90% or	ıtput load.				
Additional Remark		. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection nd surge protection device to ensure the safety of using electricity.					

Model	LF-GIR016YS	Series	flicker-free AC220-240V plastic case
-------	-------------	--------	--------------------------------------

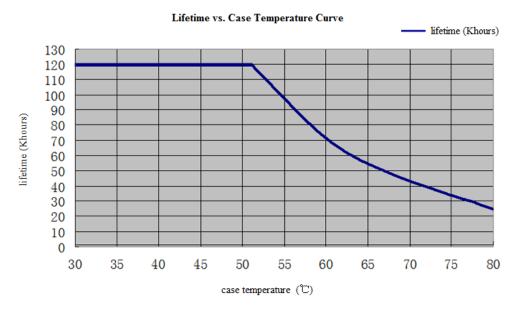


Shenzhen Ledfriend Optoelectronics Co., Ltd.

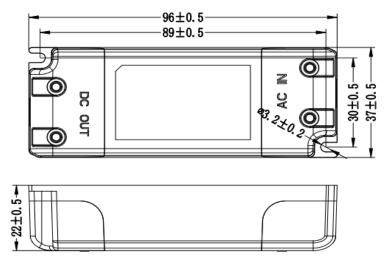
- 2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.
- 3. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to 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

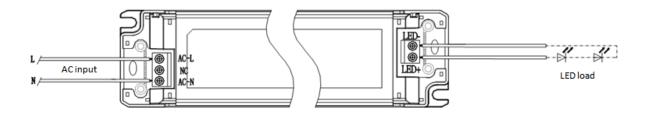
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40° C, 50° C, 60° C, 70° C and 80° C.



4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram:



Model	LF-GIR016YS	Series	flicker-free AC220-240V plastic case
-------	-------------	--------	--------------------------------------