

SPECIFICATION FOR APPROVAL

Customer:		
Product Material No. :		
Model No	LF-GIR030YM	
Version :	V1.0	

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
1.0	Original release	Li Long	2016-7-12

Shenzhen Ledfriend Optoelectronics Co., Ltd.

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

Model	LF-GIR030YM	Series	AC220-240V typical plastic case series
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Ud 深圳市莱福德光电有限公司 SHENZHEN LEDFRIEND OPTOELECTRONICS CO.,LTD.

1. Product description



Isolated LED driver suitable for class II LED luminaires. Category: typical AC220-240V plastic case series. Product properties: active PFC, high performance, high efficiency, low THD. Application: commercial, residential and decorative lighting. Warranty: 3 years (please refer to the warranty condition).

Certifications:



2. Technical data (1)

	Full model no.	LF-GIR030YM 0500H	LF-GIR030YM 0550H	LF-GIR030YM 0600H	LF-GIR030YM 0650H		
	Output voltage	25-42VDC					
	Output current	500mA 550mA 600mA 650mA					
	Ripple voltage	<4V					
Output	Current tolerance	±5% 230Vac<0.5S					
	Time to light						
	Temperature drift	±10%					
	Output line regulation	±5%					
	Input line regulation	±5% 220-240Vac (Max input voltage: 180-264Vac) 47Hz-63Hz					
	Input voltage						
	Frequency						
	Input current	0.25A Max					
_	Power factor	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac		
Input	THD	≤20%	≤20%	≤20%	≤20%		
	Efficiency	≥87%/230Vac	≥87%/230Vac	≥88%/230Vac	≥88%/230Vac		
	In-rush current (peak/duration)	<60A/300uS@230Va	c				
	Typ. power input on stand-by	<1W	<1W				
Protective	No-load	Max. input voltage (ne	o-load voltage) < 55VD	С			
features	Short-circuit	Hiccup mode (auto-re	covery)				
	Operating temperature	$-30^{\circ}C \sim +50^{\circ}C$					
Environment	Operating humidity	20-90%RH (no condensation)					
condition	Storage temperature /humidity	$-40^{\circ}C \sim +80^{\circ}C(6 \text{ months under the class I environment})$; 10-90%RH (no condensation)					
	Atmospheric pressure	86-106KPa					
	Certifications	TUV, CE, CB, RCM					
	Hi-pot test	I/P-O/P:3.75KVac,<5	mA,60S				
Safety and norms	Insulation resistance	I/P-O/P:500Vac,>100					
Safety and norms	Surge level	Comply with IEC61000-4-5(L-N:1KV)					
	EMI	Comply with EN55015, EN61000-3-2.					
	EMS		0-4-2,3,4,5,6,8,11; EN6				
04	Packing(weight)	Net weight: 90g±5%/pc xWxH).	c; 98pcs/carton; 9.0K0	G±5%/carton. Carton siz	ze: 39 x 29 x 21 cm (L		
Others	IP level	IP20					
	Warranty condition		mperature must not exce				
Testing		MA6530,digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014,DC LED board, constant temperature and humidity chamber, lightning surge generator: Everfine					
equipments							
equipments	EMS61000-5B,rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester(flicker coefficient tester) 60N-01, etc.						
Test oor dition	The parameters above inc			ested under the ambien	t temperature 25°C and		
Test condition	humidity 50%, AC input 23	30V and 90% DC load.			•		
	 In the power supply circ surge protection device to e The PC cover, shell, end 	ower supply circuit, it is recommended that the customer should install an over-under voltage protection and ection device to ensure the safety of using electricity. cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94-V0 fire					
Addition remark	the EMC performance is al	evel or above. part of LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And C performance is also related to the LED lamp's structure and the wiring routing. Thus we strongly recommend the cturer of the finished LED lamp must re-confirm the EMC of the LED lamps.					



Technical data (2)

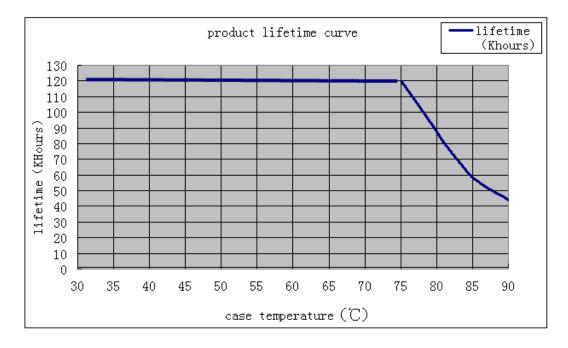
	Full model no.	LF-GIR030YM 0700H	LF-GIR030YM 0750H			
	Output voltage	25-42	2VDC			
	Output current	700mA	750mA			
	Ripple voltage	<4V				
Output	Current tolerance	±5%				
	Time to light	230Vac<0.5S				
	Temperature drift±10%					
	Line regulation	ine regulation ±5%				
	Line regulation	±5%				
	Input voltage	220-240Vac (Max input voltage: 180-264Vac)				
	Frequency	47Hz-63Hz				
	Input current	0.3A Max				
. .	Power factor	≥0.95/230Vac	≥0.95/230Vac			
Input	THD	≤20%	<i>≤</i> 20%			
	Efficiency	≥88%/230Vac	≥88%/230Vac			
	In-rush current (peak/duration)	<60A/300uS@230Vac				
	Typ. power input on stand-by	<1W				
Protective	No-load	Max. input voltage (no-load voltage) < 55VDC	Max. input voltage (no-load voltage) < 55VDC			
features	Short-circuit	Hiccup mode (auto-recovery)				
	Operating temperature	-30°C ~+50°C				
E!	Operating humidity	20-90%RH (no condensation)				
Environment condition	Storage	$-40^{\circ}C \sim +80^{\circ}C$ (6 months under the class I environment); 10-90%RH (no condensation)				
condition	temperature/humidity	$-40 \text{ C} \sim +80 \text{ C}$ (6 months under the class I er	(no condensation) (in condensation)			
	Atmospheric pressure	86-106KPa				
	Certifications	TUV, CE, CB, RCM				
	Hi-pot test	I/P-O/P:3.75KVac,<5mA,60S				
Cofety and norma	Insulation resistance	I/P-O/P:500Vac,>100MΩ				
Safety and norms	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.				
0.1	Packing(weight)	Net weight: 90g±5%/pc; 98pcs/carton; 9.0KG xWxH).	±5%/carton. Carton size: 39 x 29 x 21 cm (L			
Others	IP level	IP20				
	Warranty condition	3 year (Max. Case temperature must not exce	ed 90°C)			
		MA6530, digital power meter: CHROMA66202, C	Oscilloscope: Tektronix DPO3014,DC			
Testing	electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine					
equipments		MS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B,				
	flicker-free tester(flicker coefficient tester) 60N-01, etc.					
Test condition		cluding the power factor, THD, efficiency are te	sted under the ambient temperature $25^\circ C$ and			
	humidity 50%, AC input 230V and 90% DC load.					
	1. In the power supply circuit, it is recommended that the customer should install an over-under voltage protection and					
Addition remark	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 UL94-V0 fire rating level or above.					
Addition Pennark	3. As a part of LED lamp, the EMC performance is a	As a part of LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And EMC performance is also related to the LED lamp's structure and the wiring routing. Thus we strongly recommend the nufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.				



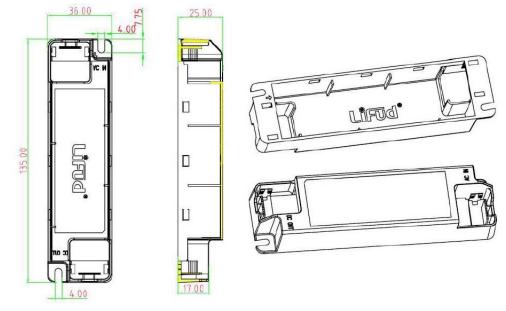
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3. Product Reference Lifetime Curve

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, 80° C, 85° C, 90° C.



4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram

