

SPECIFICATION FOR APPROVAL

Customer:					
Product Material No. :					
Model No.	LF-GIR020YI				
Version :	V3.1				
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	format change	Li Xianfei	2015-10-21

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-GIR020YI	Series	AC220-240V typical plastic case
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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: 5 years (please refer to the warranty condition).

Certifications:



2. Technical data

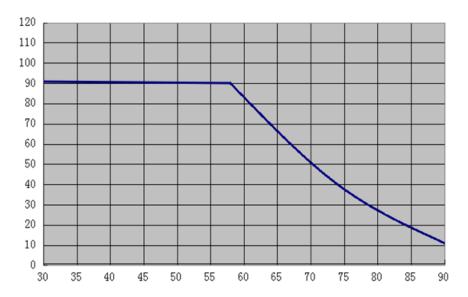
	Full model number	LF-GIR020YI0350H	LF-GIR020YI0400H	LF-GIR020YI0450H	LF-GIR020YI0500H				
	Output voltage	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC				
	Output current	350mA 400mA 450mA 500mA							
	Ripple current	≤160mA							
Output	Ripple voltage	≤5V							
Output	Current tolerance	±5%							
	Time to light	230Vac <0.5S							
	Temperature drift	±10%							
	Output Line regulation	±5%							
	Input Line regulation	±5%							
	Input voltage	220-240 Vac, (Max inpu	t voltage: 180-264Vac)						
	Frequency	47Hz-63Hz							
	Input current	0.3A Max							
- .	Power factor	≥0.91/230Vac	≥0.91/230Vac	≥0.92/230Vac	≥0.92/230Vac				
Input	THD	≤18%							
	Efficiency	≥86%/230Vac	≥86%/230Vac	≥86%/230Vac	≥87%/230Vac				
	In-rush current (peak /duration)	I<60A/350uS@230Vac							
	Typ. power input on stand-by	Pin<1W	Pin<1W						
Protective	No-load	Max. output voltage (no-	-load voltage) 55V						
features	Short-circuit	Hiccup mode (auto-reco	Hiccup mode (auto-recovery)						
	Working temperature	-30°C ~ +50°C							
Environment	Working humidity	20-90%RH (no condensation)							
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_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 EN55015, EN61000-3-2.							
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.							
	Packing (weight)	Net weight: 80g±5%/pc; 84pcs/carton; 8.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).							
Others	IP level	IP20							
	Warranty condition	n 5 years (Max. case temperature must not exceed 70°C).							
Testing equipment	load: M9712B, LED bo	ROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester t tester) 60N-01, etc.							



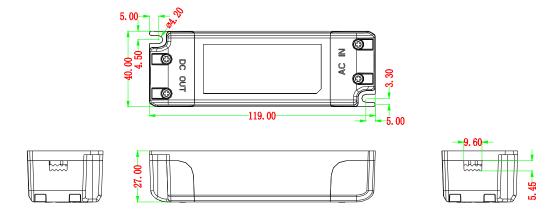
Test conditions	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% output load.	
Additional Remark	 In the power supply circuit, it is recommended that the customer should install an over-under-voltage 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

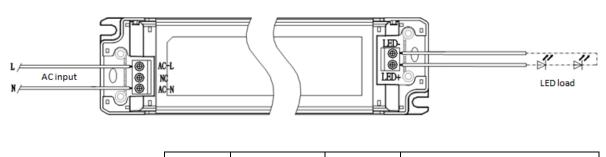
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C, 80°C, 90°C.



4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram:



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