SPECIFICATION FOR APPROVAL

Product Material No.:		
Model No	LF-GIF040YA(H)	
Version:	V1.0	
Manufacturer:	Sichuan Ledfriend Technology Co	o., Ltd
Customer Approval		
Tested by	Checked by	Approved by
edfriend Approval		
	Checked by	Approved by
Tested by	Checken by	
Tested by Huang Bin	Zhou Xiaoliang	Zhu Jungao
Huang Bin	Zhou Xiaoliang	Zhu Jungao
	Zhou Xiaoliang	Zhu Jungao

Version	Description of change	Engineer	Date
1.0	Formal version	Huang Bin	2017-04-26

Shenzhen Ledfriend Optoelectronics Co., Ltd

4&5/F, Bldg 14A, Taihua Wutong Island, Gushu, Xixiang St., Bao'an Dist., Shenzhen 518126, China **www.lifud.com** | China service hotline: 400-096-6815 (China technical support: 13410240457)

Model	LF-GIF040YA(H)	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 $\leq 0.5\%$, 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: TUV, CB, CE, RCM







2. Technical data (1)

	Full model number	LF-GIF040YA(H)1050H	LF-GIF040YA(H)1000H	LF-GIF040YA(H)0950H		
	Output voltage	33-40Vdc				
	Output current	1050mA	1000mA	950mA		
	Ripple voltage	≤ 2V				
Output	Current tolerance	±5%				
Output	Time to light	230Vac <0.5S				
	Temperature drift	±10%				
	Line regulation	±5%				
	Line regulation	±5%	±5%			
	Rated input voltage	220-240 Vac (Max input voltage: 2	200-264Vac)			
	Frequency	47Hz-63Hz				
	Input current	0.35A Max				
	Power Factor	≥0.95/230Vac				
	THD	≤20%				
	Efficiency	≥90%/230Vac				
Input	In-rush current (peak /duration)	I<60A/350uS@230Vac				
	Typ. power input on stand-by	Pin≤0.3W				
Protective	No-load	Max. output voltage (no-load volta	ige) 55Vdc			
features	Short-circuit	Hiccup mode (auto-recovery)				
	Working temperature	-30°C ~ +50°C				
Envisorment	Working humidity	20-90%RH (no condensation)				
Environment condition	Storage temperature/humidity					
	Atmospheric pressure	86-106KPa				
	Certifications	TUV, CB, CE, RCM				
	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: 100g ±5%/pc; 84pcs/c	tn; 8.72kg±5%/ctn; Carton size: 39	x 29 x 21 cm(L*W*H).		
Others	IP level	IP20				
other 5	Warranty condition	5 years (Max. case temperature mu	ust not exceed 80°C).			

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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.

Technical data (2)

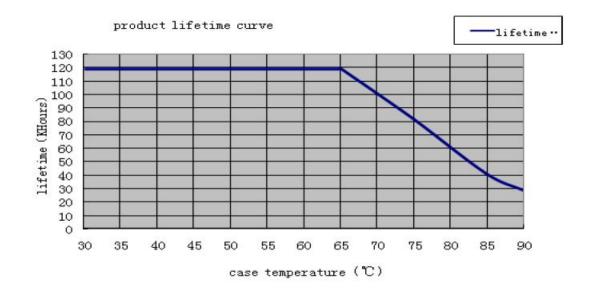
	Full model number	LF-GIF040YA(H)0900H	LF-GIF040YA(H)0850H	LF-GIF040YA(H)0800H		
	Output voltage	33-40Vdc				
	Output current	900mA	850mA	800mA		
	Ripple voltage	< 2V				
Output	Current tolerance	±5%				
	Time to light	230Vac <0.5S				
	Temperature drift	±10%				
	Line regulation	±5%				
	Line regulation	±5%				
	Rated input voltage	220-240 Vac (Max input voltage: 2	(200-264Vac)			
	Frequency	47Hz-63Hz				
	Input current	0.35A Max				
	Power Factor	≥0.94/230Vac	≥0.94/230Vac	≥0.93/230Vac		
	THD	≤20%				
Tunut	Efficiency	≥90%/230Vac				
Input	In-rush current (peak /duration)	I<60A/350uS@230Vac				
	Typ. power input on stand-by	Pin≤0.3W				
Protective	No-load	Max. output voltage (no-load voltage) 55Vdc				
features	Short-circuit	Hiccup mode (auto-recovery)				
	Working temperature	-30℃ ~+50℃				
T	Working humidity	20-90%RH (no condensation)				
Environment condition	Storage temperature/humidity	-40 °C $\sim +80$ °C (6 months under the class I environment); 10-90%RH (no condensation)				
	Atmospheric pressure	86-106KPa				
	Certifications	TUV, CB, CE, RCM (ENEC Cert. will be released soon.)				
	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: 100g ±5%/pc; 84pcs/ctn; 8.72kg±5%/ctn; Carton size: 39 x 29 x 21 cm(L*W*H).				
Others	IP level	IP20				
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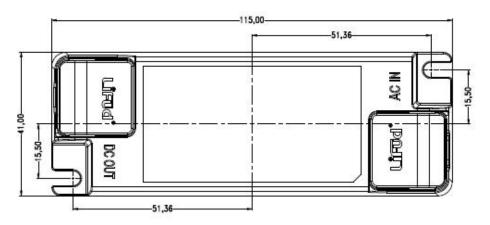
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: 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	3. 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. 4. 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.

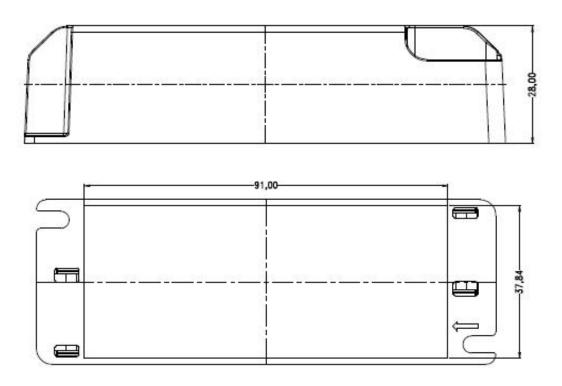
3. Product Referenced Lifetime Curve

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 , 80°C and 90°C .



4. Dimensional Drawing (unit: mm)





5. Wire Connection Diagram:

