LIFUD TECHNOLOGY CO., LTD.

1. Product Description



Electric type: isolated LED driver suitable for class II light fixtures

Category: typical AC100-277V plastic case series Product properties: active PFC, high performance, high efficiency, low THD. Application: commercial, indoor office, residential and decorative lighting.

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

Certifications:

2. Electrical Specifications

	Full model number	LF- GIR040YK0800 U	LF- GIR040YK0850 U	LF- GIR040YK0900 U	LF- GIR040YK0950 U	LF- GIR040YK1000 U	LF- GIR0440YK10 U		
	Output voltage	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC		
	Output current	800mA	850mA	900mA	950mA	1000mA	1050mA		
	Ripple voltage	≤5V							
	Current accuracy	±5%							
	Startup time	100Vac <1S , 230Vac <0.5S , 277Vac <0.5S							
Output	Temperature drift	±10%							
	Output Line regulation	±5%							
	Input Line regulation	±5%							
Input voltage 100-240 Vac, 277 Vac (Max input voltage: 90-305Vac)									
			50/60Hz						
	Input current	0.7A Max							
		≥0.97/100Vac	≥0.97/100Vac	≥0.97/100Vac	≥0.97/100Vac	≥0.97/100Vac	≥0.97/100Vac		
		≥0.93/230Vac	≥0.94/230Vac	≥0.94/230Vac	≥0.96/230Vac	≥0.96/230Vac	≥0.96/230Vac		
	Power factor	≥0.90/277Vac	≥0.91/277Vac	≥0.91/277Vac	≥0.95/277Vac	≥0.95/277Vac	≥0.95/277Vac		
	THD	≤18%		1		1			
		≥88%/100Vac	≥88%/100Vac	≥88%/100Vac	≥88%/100Vac	≥88%/100Vac	≥88%/100Vac		
_	Efficiency	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac	≥89%/230Vac	≥89%/230Vac	≥88%/100Vac		
Input		≥87%/277Vac	≥87%/277Vac	≥87%/277Vac	≥88%/277Vac	≥88%/277Vac	≥87%/100Vac		
	In-rush current	<80A/350uS@230Vac							
	No load power consumption	<1W							
Protective	Open-circuit protection	Open circuit voltage <55V							
features	Short-circuit protection	Hiccup mode (auto-recovery)							
	Working temperature	-30°C ~ +50°C							
	Working humidity	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	TUV, RCM, CE,	CB, GS, UL, FCC						
	Withstanding voltage	I/P-O/P: 3.75KVac, <5mA, 60S							
	Insulation resistance	I/P-O/P: 500VDC, >100MΩ							
Safety and	Surge level	Comply with IEC61000-4-5(L/N: 1KV)							
norms	EMI	Comply with EN55015, EN61000-3-2, FCC Part15							
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.							
	Packing (weight)	Packaging dimensions: 385*285*210 mm (L*W*H); Weights: 150g±5%/pcs; 10.8kg±5%/ctn. Quantities: 66pcs/ctn							
Others	IP level	IP20							
Others	Warranty condition 5 years (Tc≤70°C).								
Testing equipment	load: M9712B, LEI	HROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic CD board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, enerator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester ent tester) 60N-01, etc.							
		Model	LF-GIR040YF	K Series	AC100-277	V typical plastic c	ase		

Model LF-GIR040YK Series AC100-277V typical plastic case

Lifud TECHNOLOGY CO., LTD.

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.

	Full model number		LF-GIR040YK0	700U	LF-GIR040YK1200U		
	Output voltage		40-55 VE	C	24-35 VDC		
	Output current		700m/	L Contraction of the second se	1200mA		
	Ripple voltage		<5.5V		<4V		
Output	Current accuracy	±5%					
Output	Startup time	100Vac <1S , 230Vac <0.5S , 277Vac <0.5S					
	Temperature drift	±10%					
	Output Line regulation	±5%					
	Input Line regulation	±5%					
	Input voltage	100-240 Vac, 277 Vac (Max input voltage: 90-305Vac)					
	Frequency	47Hz-63Hz					
	Input current	0.7A Max	0.7A Max				
		≥0.97/100Vac ≥0.97/100Vac					
	Power factor	≥0.93/2	≥0.94/230Vac				
		≥0.90/2	≥0.90/277Vac ≥0.91/277Vac				
Input	THD	<u>≤20%</u>					
		≥86%/100Vac ≥86%/100Vac					
	Efficiency		230Vac		≥88%/230Vac		
	In-rush current	≥87%/277Vac ≥87%/277Vac					
	m-rush current	<80A/350uS@230Vac					
	No load power consumption	<1W					
Protective	Open-circuit protection	Open circui	Open circuit voltage <70V Open circuit voltage <50V				
features	Short-circuit protection	Hiccup mode (auto-recovery)					
	Working temperature	-30°C ~ +50°C					
	Working humidity	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	Comply with CE, no certifications					
	Withstanding voltage	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, FCC Part15					
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.					
	Packing (weight)	Packaging dimensions: 385*285*210 mm (L*W*H); Weights: 150g±5%/pcs; 10.8kg±5%/ctn. Quantities: 66pcs/ctn					
Others	IP level	IP20					
	Warranty condition	5 years (Tc≤70°C).					
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC elec load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS610 rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free te						

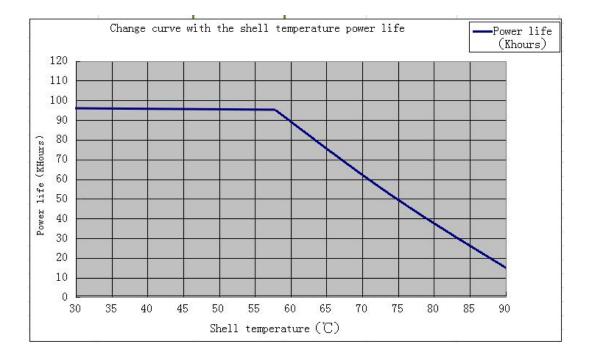


Test conditions	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% output load.
Additional Remark	 In the power supply circuit, it is recommended that the customer should install an over-under-voltage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

Γ

The curve below illustrates the driver's lifetime data when the LED driver's case temperature

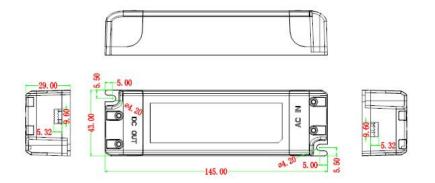


reaches 40°C, 50°C, 60°C, 70°C, 80°C and 90°C.

Model	LF-GIR040YK	Series	AC100-277V typical plastic case
-------	-------------	--------	---------------------------------



4. Structure & Dimensions (Unit: mm):



5. Wiring Diagram:

