

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 GIR040YK	0850U	L GIR040Y	F- K0900U	LF- GIR040YK0950U	GIR040	LF-)YK1000U
	Output voltage	27-42 VDC	27-42	VDC	27-4	12 VDC	27-42 VDC	27	7-42 VDC
Output	Output current	800mA	850	mA	90	0mA	950mA		1000mA
	Ripple voltage	≤5V							
	Current accuracy	±5%							
	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							
		≥0.97/100Va	ic ≥0.97/1	100Vac	≥0.97	7/100Vac	≥0.97/100Vac	≥0.	97/100Va
	Power factor	≥0.93/230Va	ic ≥0.94/2	230Vac	≥0.94	/230Vac	≥0.96/230Vac	≥0.	96/230Va
Input		≥0.90/277Va	ic ≥0.91/2	277Vac	≥0.91	/277Vac	≥0.95/277Vac	≥0.	95/277Va
Input	THD	≤18%							
		≥88%/100V	ic ≥88%/2	100Vac	≥88%	6/100Vac	≥88%/100Vac	≥88	3%/100Va
	Efficiency	≥88%/230Va		230Vac		b/230Vac	≥89%/230Vac		9%/230Va
	In-rush current	≥87%/277Vac ≥87%/277Vac ≥87%/277Vac ≥88%/277Vac ≥88%/277Vac ≥88%/277Vac ≥88%/277Vac							
	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							
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	TUV, RCM, CE, CB, GS, UL, FCC							
	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.							
Others	Packing (weight)	Packaging dimensions: 385*285*210 mm (L*W*H); Weights: 150g±5%/pcs; 10.8kg±5%/ctn. Quantities: 66pcs/ctn							
	IP level	IP20							
	Warranty condition	5 years (Tc≤70°C).							
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.								
		Model LF	-GIR040YK	Ser	ies	AC100-	277V typical plastic	Case	

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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.

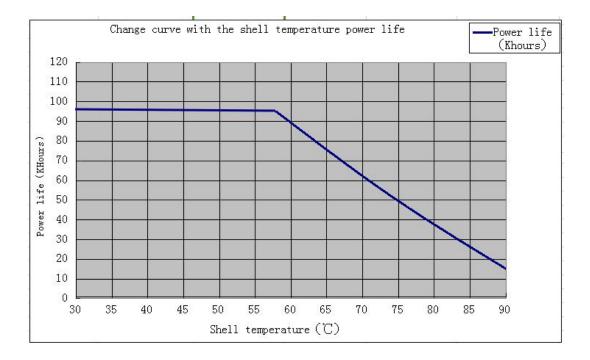
	Full model number		LF-GIR040YK0'	700U	LF-GIR040YK1200U			
	Output voltage		40-55 VI	C	24-35 VDC			
	Output current		700m/	1200mA				
	Ripple voltage		<5.5V		<4V			
A	Current accuracy	±5%						
Output	Startup time	100Vac <1S , 230Vac <0.5S , 277Vac <0.5S						
	Temperature drift	±10%						
	Output Line 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						
		≥0.97/100Vac ≥0.97/100Vac						
	Power factor	≥0.93/2	230Vac		≥0.94/230Vac			
Input	≥0.90/277Vac				≥0.91/277Vac			
Input	THD	≤20%						
		≥86%/100Vac ≥86%/100Vac						
	Efficiency	-	230Vac		≥88%/230Vac			
	In-rush current		≥87%/277Vac ≥87%/277Vac <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						
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	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)						
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	1		LF-GIR040YK					



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3. Product Referenced Lifetime Curve

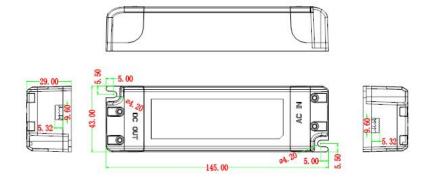
The curve below illustrates the driver's lifetime data when the LED driver's case temperature



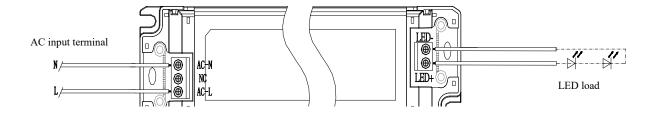
reaches 40°C, 50°C, 60°C, 70°C, 80°C and 90°C.



4. Structure & Dimensions (Unit: mm):



5. Wiring Diagram:



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