1. Product description



Isolated LED driver suitable for class II LED luminaires.

Category: typical AC100-277V 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

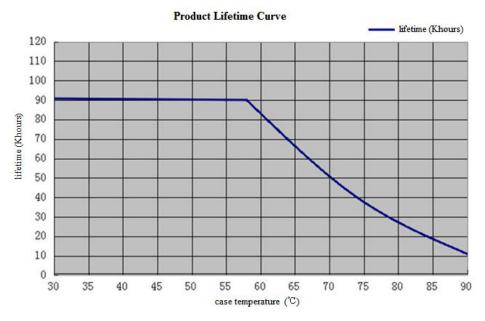
	Full model number	LF-GIR020YK0350U	LF-GIR020YK0400U	LF-GIR020YK0450U	LF-GIR020YK05000			
	Output voltage	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC			
Output	Output current	350mA 400mA 450mA 500mA						
	Ripple current	≤160mA						
	Ripple voltage	≤5V						
	Current tolerance	±5%						
	Time to light	100Vac <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	0.3A Max						
		≥0.96/100Vac	≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac			
	Power factor	≥0.90/230Vac	≥0.91/230Vac	≥0.92/230Vac	≥0.92/230Vac			
Input		≥0.86/277Vac	≥0.89/277Vac	≥0.90/277Vac	≥0.90/277Vac			
put	THD	≤18%						
		≥86%/100Vac	≥86%/100Vac	≥86%/100Vac	≥86%/100Vac			
	Efficiency	≥86%/230Vac	≥86%/230Vac	≥86%/230Vac	≥86%/230Vac			
	In-rush current (peak /duration)	≥84%/277Vac ≥85%/277Vac ≥86%/277Vac ≥86%/277Vac I<60A/350uS@230Vac						
	Typ. power input on stand-by	Pin<1W						
Protective	No-load	Max. output voltage (no-load voltage) 55V						
features	Short-circuit	Hiccup mode (auto-recovery)						
	Working temperature	-30°C ~ +50°C	-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	UL, FCC, ENEC, TUV_GS, CE, CB, RCM, SAA						
	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.						
Others	Packing (weight)	Net weight: 80g±5%/pc; 84pcs/carton; 8.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).						
	IP level	IP20						
	Warranty condition	5 years (Max. case temperature must not exceed 70°C).						
Testing equipment	load: M9712B, LED bo	rer source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic 9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, oup pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester free coefficient tester) 60N-01, etc.						

Model LF	-GIR020YK	Series	AC100-277V typical plastic case
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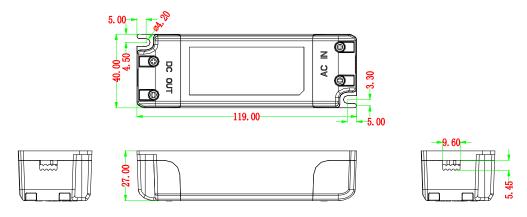
Test conditions	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% output load.
Additional Remark	1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity. 2. 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

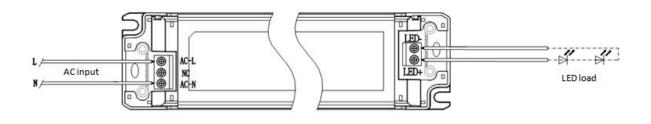
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40° C, 50° C, 60° C, 70° C, 80° C, 90° C.



4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram:



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