Features

- Suitable for Class II light fixtures
- High PF, high efficiency
- Globally certified: ENEC, CE, CB, RCM, TUV, CCC
- 5-year warranty (please refer to the warranty condition)



Applications

· Indoor office lighting · decorative lighting · commercial lighting · residential lighting

Descriptions

LF-GIR022YM is an isolated constant current LED driver with the maximum output power of 22W. Its rated input voltage ranges from 220 to 240Vac and output voltage from 25 to 40Vdc.

Product Model

LF - GIR 022 YM xxxx H

- H: input voltage: 220-240Vac
- xxxx: output current (e.g. 0550: 550mA)
- Y: complies with certifications; M: serial number
- 022: output power: 22W
- G: isolated design; IR: indoor LED driver series

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■ Electrical Characteristics

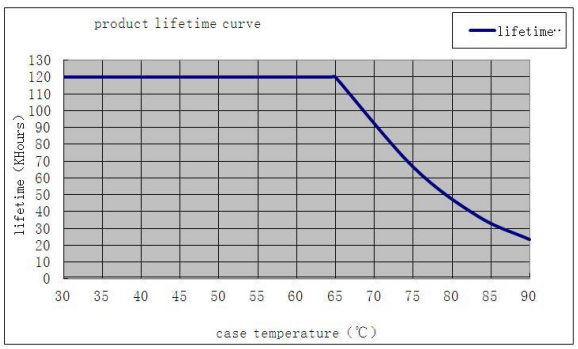
Model		LF-GIR022YMxxxxH			
Output	Output Voltage	25-40Vdc			
	Output Current	400mA	450mA	500mA	550mA
	Ripple Voltage	<4.0V			
	Current Tolerance	±5%			
	Startup Time	<0.5S			
	Temperature Drift	±10%			
	Output Linear Adjustment Rate	±5%			
Input	Input Linear Adjustment Rate	±5%			
	Input Voltage	220-240Vac (voltage limit: 180-264Vac)			
	Input Frequency	50/60Hz			
	Input Current	0.2A max.			
	PF	>0.9			
	THD	<18%			
	Efficiency	≥85%			
	Inrush Current	<60A@350uS@230Vac			
	Standby Power Consumption	<1W			
Protections	Open Circuit	<55V			
	Short Circuit	Hiccup mode (auto-recovery)			
Environment Descriptions	Operating Temperature	-30℃ - +50℃			
	Operating Humidity	20-95%RH (without condensation)			
	Storage Temperature/ Humidity	-40℃ - 80℃ (6 months in Class I environment); 10-95%RH (without condensation)			
	Atmospheric Pressure	86-106kPa			

■ Electrical Characteristics

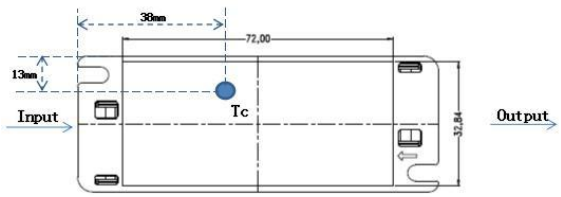
Safety and EMC	Certifications	ENEC, CE, CB, RCM, TUV, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	Complies with IEC61000-4-5 (L-N: 1kV)
	EMI	Complies with EN55015, EN61000-3-2
	EMS	Complies with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
Other Parameters	IP Rating	IP20
	Warranty	5 years (Tc≤78℃)
Testing Equipment	AC power source: CHROMA6530, Digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber; Everfine EMS61000-5B: Everfine EMS61000-4A, spectroanalyzer: KH3935, withstanding voltage tester: TH9201B, flicker tester (flicker-free coefficient test) 60N-01, etc.	
Remark	The above parameters are tested at the ambient temperature of 25℃, humidity of 50%, 90% load and input voltage of 230Vac without any special remarks.	
Additional Remarks	1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 3. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished.	

■ Product Characteristic Curves

Lifetime Curve

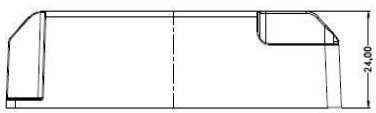


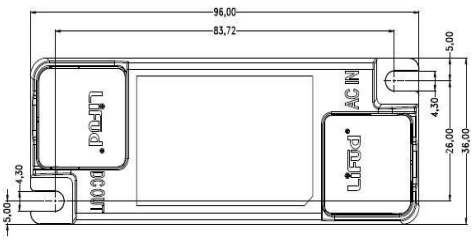
Tc Point Testing Diagram



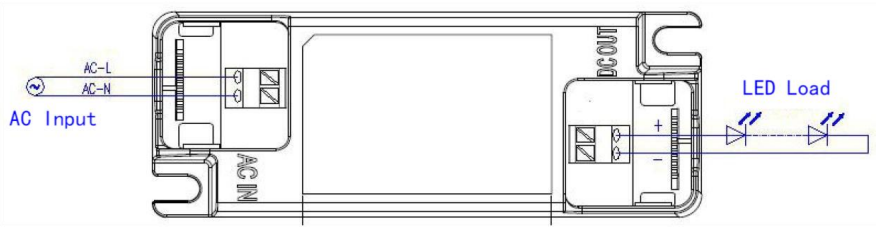
■ Structures and Dimensions (unit: mm; tolerance: +0.5mm)

Overall Appearance Dimensions (L*W*H)	Center-to-center Space Between 2 Positioning Holes	Diameter of Positioning Hole
96*36*24 mm	83.72*26 mm	4.3 mm





■ Wiring Diagram



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■ Packaging Specifications

Model	LF-GIR022YMxxxxH
Carton Size	385*285*210mm (L*W*H)
Quantity	23 pcs/layer; 7 layers/ctn; 161 pcs/ctn
Weight	0.06±5% kg/pc; 9.85±5% kg/ctn

■ Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

- The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.