

Product Description

LF-GIF020YFIIxxxxH is a 14-20W isolated constant current LED driver. It can work under Ta of 55°C and has two types: LED driver with external casing and bare board LED driver with bottom casing. The input voltage range is 220-240Vac. The output voltage range is 30-40Vdc. The output current range is 350-500mA.

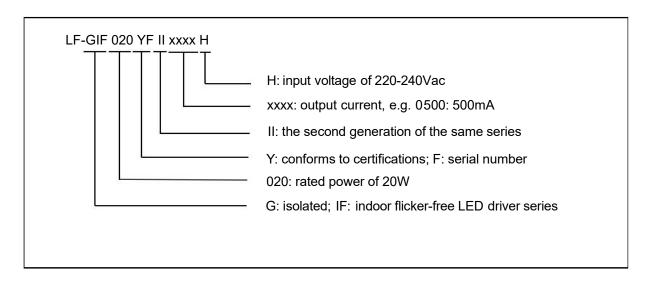
Features

- Built-in assembly
- Flicker free
- Ta: 55℃
- High efficiency and low THD
- 5-year warranty (Please refer to the warranty condition.)
- Suitable for Class II light fixture

Applications

- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Residential lighting

Product Naming







www.lifud.com Service Hotline: +86 755 8373 9299



Electrical Characteristics

Model		LF-GIF020YFIIxxxxH						
Output	Output Voltage	30-40Vdc						
	Output Current	350mA		400mA	450m/	4	500mA	
	Flicker Index (Modulation depth)	<0.5%						
	CIE SVM	≤0.4						
	IEC-Pst	≤1.0						
	Current Tolerance	±5%						
	Temperature Drift	±10%						
	Start-up Time	<0.5S						
	AC Input Voltage	220-240Vac (limit: 200-264Vac)						
	Input Frequency	47Hz-63Hz						
	Input Current	0.13A Max						
	Power Factor	≥0.9						
	THD	≤20%						
Input	Efficiency	≥85.5%	≥86%		≥86.5%	≥879)
	Inrush Current	≤20A & 150uS						
	Load Quantity Carried	Circuit Breaker M	odel	B10	C10	В	16	C16
	by the Circuit Breaker	Quantity (pcs)		39	65	6	2	104
	Leakage Current	≤0.7mA						
	Standby Power Consumption	<0.5W						
Protection Characteristics	Open Circuit Protection	<55V						
	Short Circuit Protection	Hiccup mode (auto-recovery)						

www.lifud.com Service Hotline: +86 755 8373 9299



www.lifud.com

Environment Description	Operating Temperature	-30℃~+55℃	
	Operating Humidity	0-95%RH (no condensation)	
	Storage Temperature/Humidity	-30℃~+ 80℃ (six months under class I environment);	
		0-95%RH (no condensation)	
	Atmospheric Pressure	86KPa~106KPa	
	Certifications	TUV-ENEC, CE, CB, CCC, RCM	
	Withstanding Voltage	I/P-O/P: 3.75KV & 5mA & 60S	
	Insulation Resistance	I/P-O/P: >100MΩ @ 500Vdc	
		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,	
		EN 62384: 2016/A1: 2009;	
		CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,	
	Safety Standards	EN 62493: 2015;	
Safety &		CB: IEC 61347-1: 2015, IEC61347-2-3: 2014,	
Electromagnetic Compatibility		IEC 61347-2-13: 2014/AMD1: 2016;	
Compatibility		RCM: AS 61347.2-13:018	
		CCC: GB19510.1-2009, GB19510.14-2009	
	ЕМІ	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3	
		CCC:GB/T17743, GB17625.1, GB17625.2	
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1KV), 6, 11	
		CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1KV), 6, 11	
	IP Rating	IP20	
Others	RoHS	RoHS 2.0 (EU) 2015/863	
	Warranty Condition	5 yrs (Tc<74℃)	
Test 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.		

Service Hotline: +86 755 8373 9299



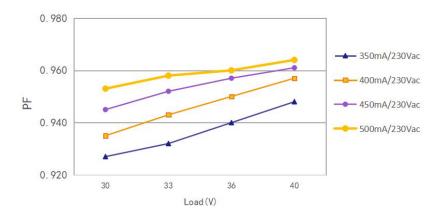
- 1. It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices in the power supply circuits of the light fixtures to ensure safety before connecting to electricity.
- 2. The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94-V0 flammability standard or above.
- 3. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of the whole LED light fixture.

Remarks

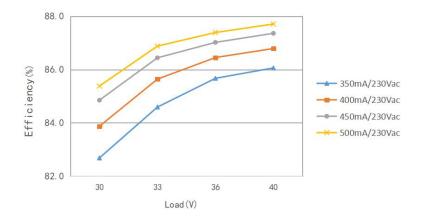
- 4. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current test.
- 5. Unless otherwise stated, the parameters above are test results under these conditions: ambient temperature 25℃, humidity 50%, input voltage 230Vac(50Hz) and 100% load.
- 6. The location hole on the bottom casing of the LED driver is Φ3.5mm. It is recommended to use screw with head diameter of 5mm and outer diameter of M3 for LED driver with external casing and screw with head diameter of 6mm and outer diameter of M3 for bare board LED driver with bottom casing.
- 7. Do not place the LED driver in the track head.

Characteristic Curves

■ PF Curve



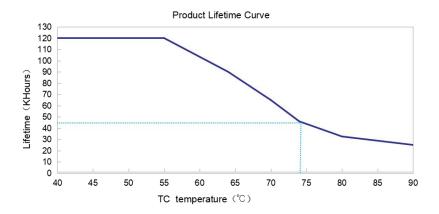
■ Efficiency Curve



Service Hotline: +86 755 8373 9299 www.lifud.com



■ Lifetime Curve



Definitions of Terminals

INPUT

AC-N(gray terminal)	Input terminal of AC neutral wire
AC-L(gray terminal)	Input terminal of AC live wire

OUTPUT

LED+(red terminal)	Positive electrode output of the driver
LED-(black terminal)	Negative electrode output of the driver

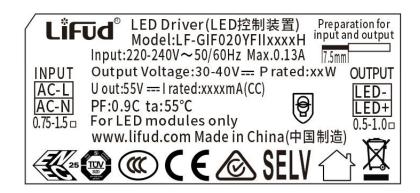
Labels



LED driver with external casing

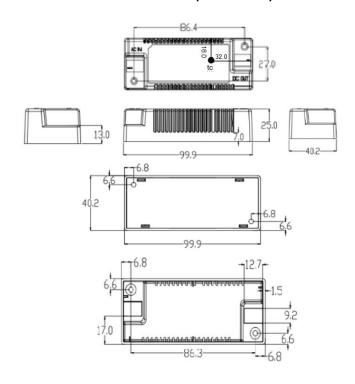
5



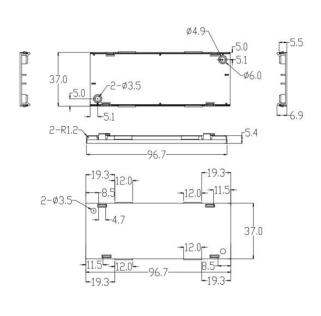


Bare board LED driver with bottom casing

Structure & Dimensions (Unit: mm)



LED driver with external casing



Bare board LED driver with bottom casing

Packaging Specifications

■ LED driver with external casing

Model	LF-GIF020YFIIxxxxH
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 7 layers/ctn; 98 pcs/ctn
Weights	0.056 kg±5%/pc; 6.5kg±5%/ctn

Service Hotline: +86 755 8373 9299



■ Bare board LED driver with bottom casing

Model	LF-GIF020YFIIxxxxH
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	15 pcs/layer; 6 layers/ctn; 90 pcs/ctn
Weights	0.044 kg±5%/pc; 5.7kg±5%/ctn

Transportation & Storage

■ Transportation

- Suitable transportation means: vehicles, boats and aircraft.
- During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

■ Storage

 Storage in accordance with the provisions of Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.

Service Hotline: +86 755 8373 9299