Features

- Ta: 70℃
- Compact size
- High efficiency up to 88%
- 2 sets of terminals for convenient wiring
- Flicker free

Applications

· Commercial lighting · office lighting · decorative lighting · residential lighting

Descriptions

LF-GIC020YSII is an isolated constant current LED driver with the maximum output power of 22W. Its rated input voltage range is 220-240Vac and its output voltage range is 33-40Vdc. It is suitable for Class I and II light fixtures such as down light, ceiling light and so on.

Product Model

LF- GIC 020 YSII xxxx H

- H: input voltage: 220-240Vac
- xxxx: output current (e.g. 0550: 550mA)
- Y: certificated; S: serial number; II: the 2nd generation
- 020: output power: 20W
- G: isolated design; IC: indoor circular casing LED driver

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■ Electrical Characteristics

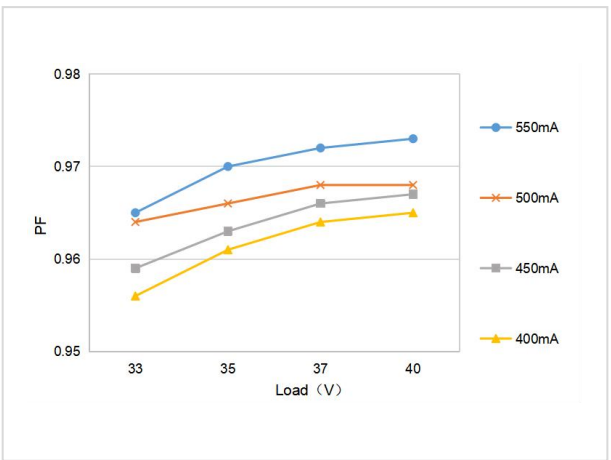
Model		LF-GIC020YSIIxxxxH				
Output	Output Voltage	33-40V				
	Output Current	400mA	450mA	500mA	550mA	
	Flicker	According to IEEE 1789 standard				
	CIE SVM	≤0.4				
	IEC-Pst	≤1.0				
	Current Tolerance	±5%				
	Temperature Drift	±10%				
	Start-up Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 200-264Vac)				
	Input Frequency	47Hz-63Hz				
	Input Current	0.15A max.				
	PF	≥0.9				
	THD	≤20%				
	Efficiency	≥88%				
	Inrush Current	≤20A@250uS				
	Loading Quantity on Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	42	52	68	83
	Leakage Current	≤0.7mA				
	Standby Power Consumption	≤0.5W				
Protections	Open Circuit	<55V				
	Short Circuit	Hiccup mode (self-recovery)				
Environment Descriptions	Operating Temperature	-30℃ - +70℃				
	Operating Humidity	0-95%RH (no condensation)				
	Storage Temperature/ Humidity	-30℃ - 80℃ (6 months in Class I environment); 0-95%RH (no condensation)				
	Atmospheric Pressure	86-106kPa				
Safety and EMC	Certifications	ENEC, CE, CB, RCM, CCC				
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S				
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc				
	Safety Standards	ENEC: EN61347-1:2015, EN61347-2-13: 2014/A1: 2017, EN62384 2016/A1: 2009 CE-LVD: EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015 CB: IEC61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 CCC: GB19510.1-2009, GB19510.14-2009 RCM: AS61347.2-13: 2018				
	EMI	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				

Electrical Characteristics

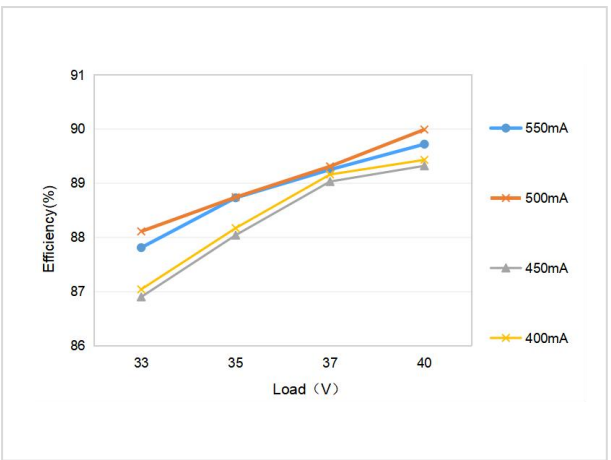
Other Parameters	IP Rating	IP40
	RoHS	RoHS 2.0 (EU) 2015/863
	Tc Max	100℃
	Warranty	5 years (Tc≤94℃)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66205, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
Remarks	1. It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. 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. 3. The number of LED drivers that can be connected to a circuit breaker and the inrush current are tested under the same conditions. 4. 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. 5. If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃, humidity of 50%, full load and input voltage of 230Vac/50Hz.	

Product Characteristic Curves

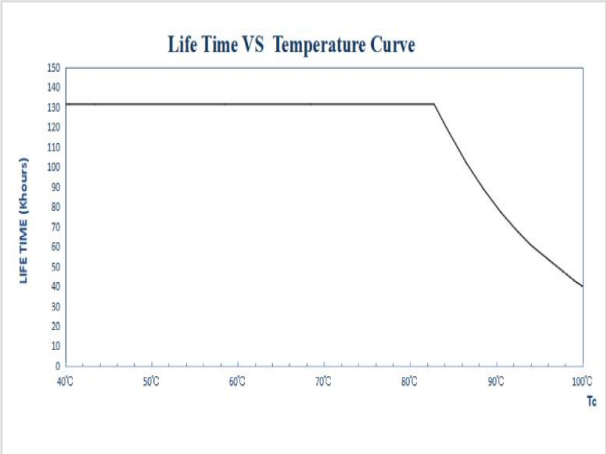
PF Curve



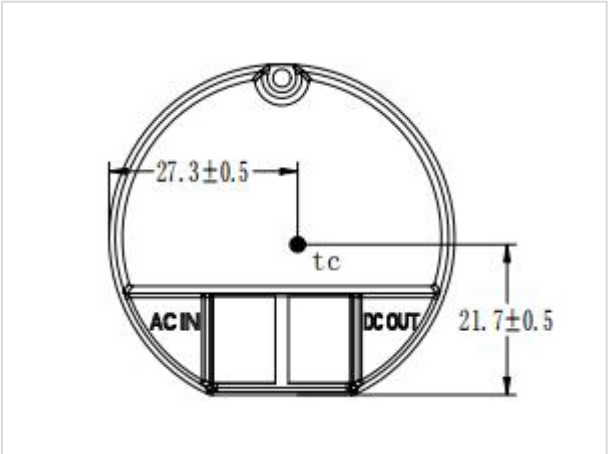
Efficiency Curve



Lifetime Curve



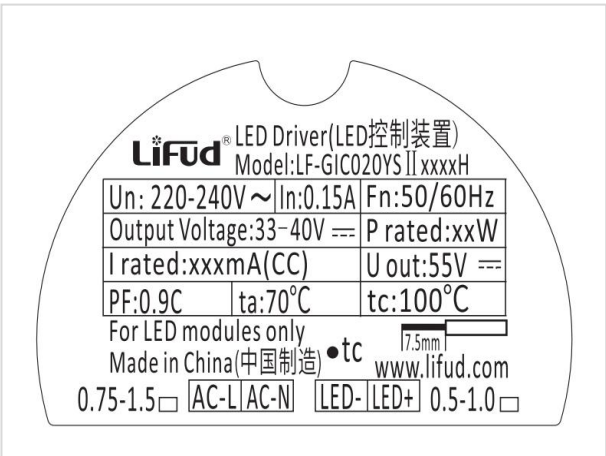
Tc Point Test Diagram



■ Product Terminals

Input		Output	
AC-L	AC live wire input	LED+	Positive terminal output of LED driver
AC-N	AC neutral wire input	LED-	Negative terminal output of LED driver

■ Label



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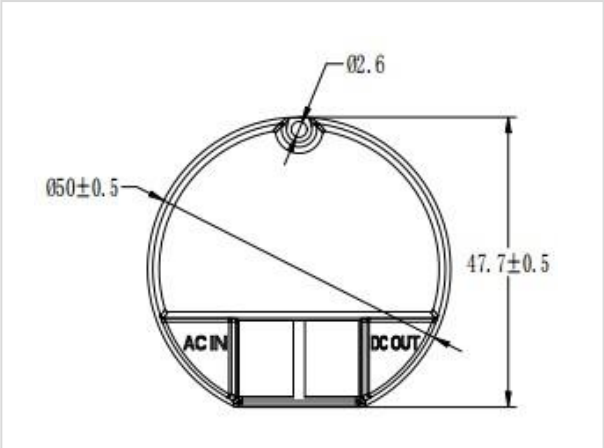
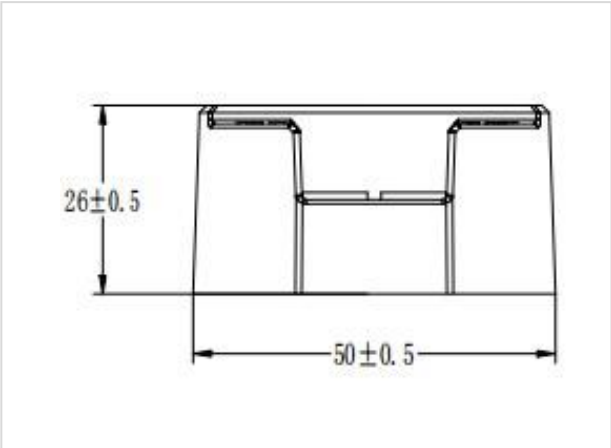
■ Structure & Dimensions (unit: mm)

Overall Appearance (D×H)	Positioning Hole Dimension (D)
Φ 50×26 mm	Φ 2.6 mm





■ Packaging Specifications

Model	LF-GIC020YSIIxxxxH
Carton Size	385×285×210mm (L×W×H)
Quantity	20 pcs/layer; 7 layers/ctn; 140 pcs/ctn
Weight	0.075 kg/pc; 11.5 kg/ctn

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■ 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 on 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 content of this specification.