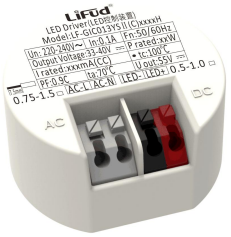
Features

- Ta: 70℃
- Compact size
- Flicker free
- 2 sets of terminals for convenient wiring
- IP40
- Suitable for Class I/II light fixtures



Applications

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

Descriptions

LF-GIC013YSII(C)xxxxH is a 13W constant current LED driver. Its input voltage ranges from 220 to 240Vac, output voltage from 33 to 40Vdc and output current from 200 to 350mA. It is suitable for down light, ceiling light, etc.

Product Model

LF - GIC013YSII (C) xxxx H

- H: input voltage: 220-240Vac
- xxxx: output current
- (C): high PF
- Y: certificated; S: serial number; II: the 2nd generation
- 013: output power: 13W
- G: isolated design; IC: indoor circular casing LED driver

Lifud Technology Co., Ltd.
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Factory I: Lifud Gardern-style Industrial Park, Tianfu New Dist., Meishan City, Sichuan, China
Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, China
Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

■ Electrical Characteristics

Model		LF-GIC013YSII(C)xxxxH				
Output	Output Voltage	33-40V				
	Output Current	200mA	250mA	300mA	350mA	
	Flicker Index	According to IEEE Std 1789-2015				
	CIE SVM	≤0.4				
	IEC-Pst	≤1.0				
	Current Tolerance	±7%		±5%		
	Temperature Drift	±10%				
	Start-up Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 200-264Vac)				
	Input Frequency	50/60Hz				
	Input Current	0.1A max.				
	PF	≥0.85		≥0.9		
	Efficiency	≥88.5%				
	Inrush Current	≤14A&150uS				
	Loading Quantity on Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	55	88	88	140
	Leakage Current	≤0.7mA				
	Standby Power Consumption	<0.5W				
Protection Characteristics	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				

■ Electrical Characteristics

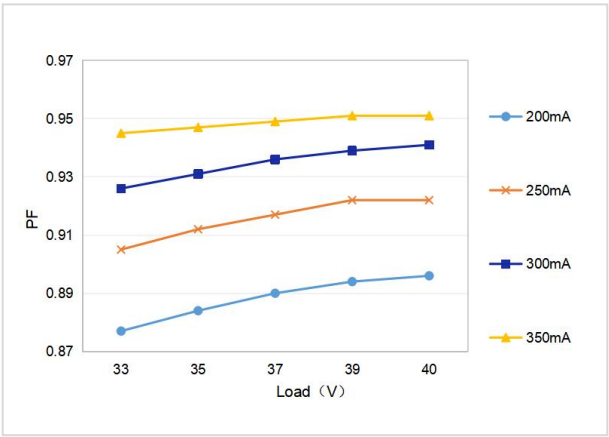
Safety & EMC	Certifications	ENEC, CE, CB, UKCA, RCM
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384:2016/A1:2009 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 CB: IEC 61347-1:2015, IEC61347-2-3:2014, IEC 61347-2-13:2014/AMD1:2016 UKCA-LVD: EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017 EN 62493:2015 RCM: AS 61347.2-13:2018
	EMI	CE-EMC/RCM:EN55015, EN61000-3-2:2018, EN61000-3-3 UKCA-EMC: EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11
Other Parameters	IP Rating	IP40
	RoHS	RoHS 2.0 (EU) 2015/863
	Tc Max	100℃
	Warranty	5 years (Tc≤88℃)
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: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
Test Remark	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.	

■ Electrical Characteristics

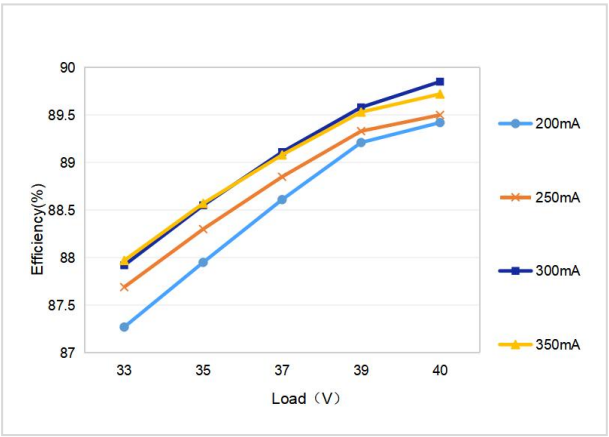
Additional Remarks	1. It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories of 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.

■ Product Characteristic Curves

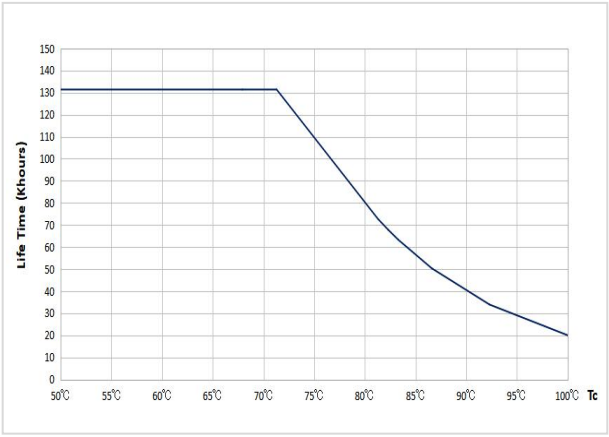
PF Curve



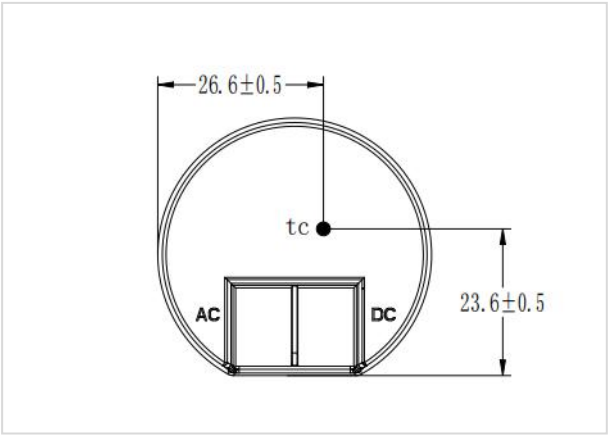
Efficiency Curve



Lifetime Curve



Tc Point Test Diagram



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Product Terminals

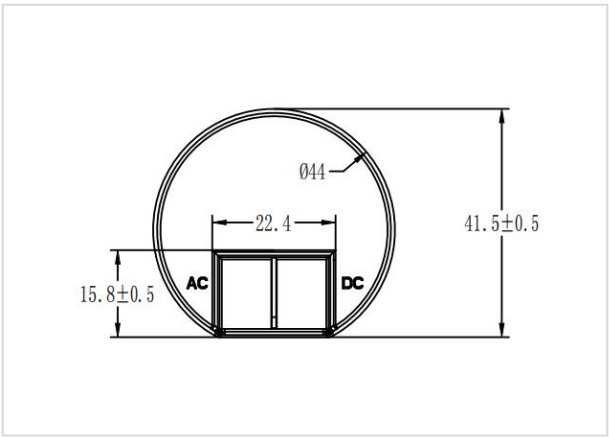
Input		Output	
AC-L	AC live wire input	LED+	Positive terminal output of LED driver
AC-N	AC neutral wire input	LED-	Negative terminal output of LED driver

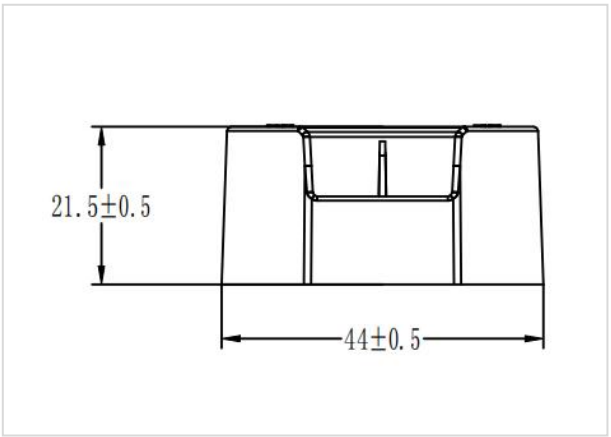
Structure & Dimensions (unit: mm)

Product Dimensions

Model	Overall Appearance (D*H)
LF-GIF013YSII(C)xxxxH	Φ 44*21.5 mm

Structure Diagrams





Packaging Specifications

Model	LF-GIC013YSII(C)xxxxH
Carton Size	385*285*210mm (L*W*H)
Quantity	30 pcs/layer; 6 layers/ctn; 180 pcs/ctn
Weight	0.046 kg/pc; 9.78 kg/ctn

■ Transportation & 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.

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