

### Features

- Compact size
- Moistureproof semi-glue filling design
- Input and output terminals for wiring
- Flicker free
- 5-year warranty (please refer to the warranty condition)



### Applications

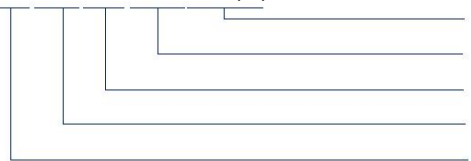
· Decorative lighting · indoor office lighting

### Descriptions

LF-GIR003YSIIxxxxH/H(D) is an isolated constant current LED driver with the maximum output power of 3W. Its rated input voltage range is 220-240Vac and its output voltage has 2 range options, including 2-4Vdc and 5-10Vdc. It is suitable for Class II light fixtures such as spot light, down light and so on.

### Product Model

LF- GIR 003 YSII xxxx H/H(D)



- H: input voltage: 220-240Vac; (D): output voltage: 5-10V
- xxxx: output current (e.g. 0700: 700mA)
- Y: conforms to certifications; S: serial number; II: the 2rd gen.
- 003: maximum output power: 3W
- G: isolated design; IR: indoor LED driver series

### Lifud Technology Co., Ltd.

Production Base I (HQ): Building B, Kutto Industrial Park, No.26, Xinhe Road, Bao'an District, Shenzhen City, China.  
 Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Area, Meishan City, Sichuan, China.  
 Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

## ■ Electrical Characteristics

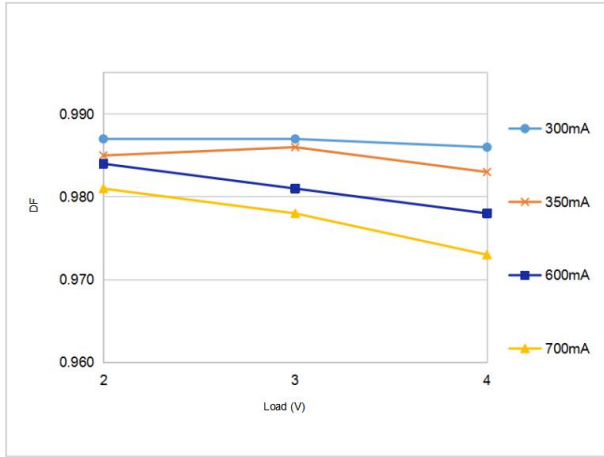
Model		LF-GIR003YSIIxxxxH				LF-GIR003YSIIxxxxH(D)		
<b>Output</b>	Output Voltage	2-4Vdc				5-10Vdc		
	Output Current	300mA	350mA	600mA	700mA	300mA		
	Flicker	Complies with IEEE 1789 standard.						
	CIE SVM	≤0.4						
	IEC-Pst	≤1.0						
	Current Tolerance	±7%						
	Temperature Drift	±10%						
	Startup Time	<0.5S						
<b>Input</b>	Input Voltage	220-240Vac (voltage limit: 198-264Vac)						
	Input Frequency	47Hz-63Hz						
	Input Current	0.06A max.						
	DF	>0.5						
	Efficiency	≥56%	≥56%	≥64%	≥65%	≥70%		
	Inrush Current	≤20A&108uS						
	Loading Quantities of Circuit Breaker	Model	B10		C10		B16 C16	
		Quantity (pcs)	37		62		60 102	
	Leakage Current	≤0.7mA						
	Standby Power Consumption	≤0.5W						
<b>Protections</b>	Open Circuit	<16V				<35V		
	Short Circuit	Hiccup mode (auto-recovery)						
<b>Environment Descriptions</b>	Operating Temperature	-20°C - +50°C						
	Operating Humidity	0-95%RH (without condensation)						
	Storage Temperature/ Humidity	-30°C - 80°C (6 months in Class I environment); 0-95%RH (without condensation)						
	Atmospheric Pressure	86-106kPa						

### ■ Electrical Characteristics

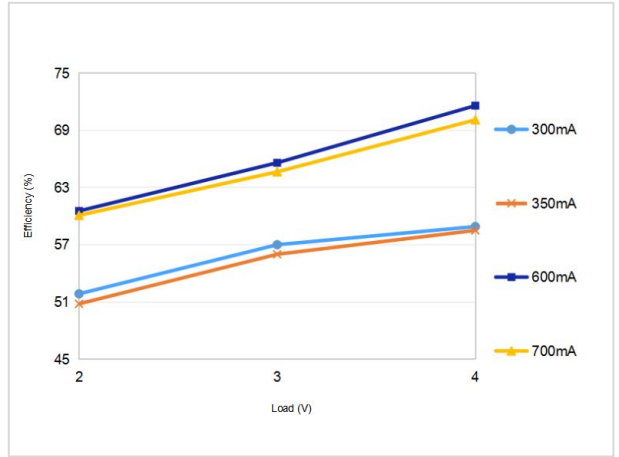
<b>Safety and EMC</b>	Certifications	CE, CB, RCM, SAA, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 CB: IEC 61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 CCC: GB19510.1-2009, GB19510.14-2009 SAA: AS 61347.2-13: 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
<b>Other Parameters</b>	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc≤74°C)
<b>Testing Equipment</b>	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, spectrometer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
<b>Additional Remarks</b>	<ol style="list-style-type: none"> <li>1. It is recommended that client install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety.</li> <li>2. The LED driver used in combination with the end device is one of the accessories in the whole light fixture, and its EMC 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 performance of LED driver before the whole light fixture is finished.</li> <li>3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current.</li> <li>4. The PC shade, casing and plug for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above.</li> <li>5. The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz without any special remarks.</li> </ol>	

■ Product Characteristic Curves

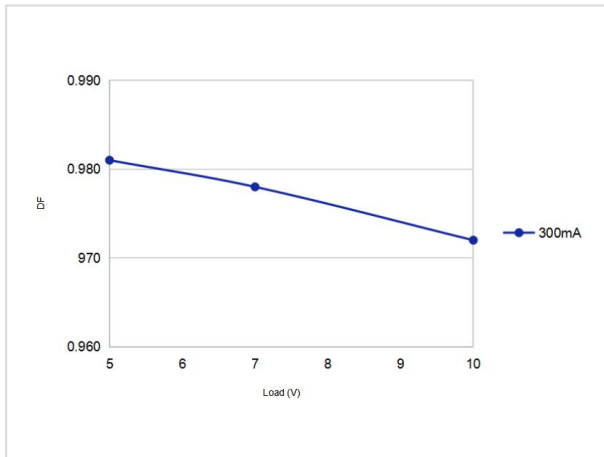
DF Curves 1



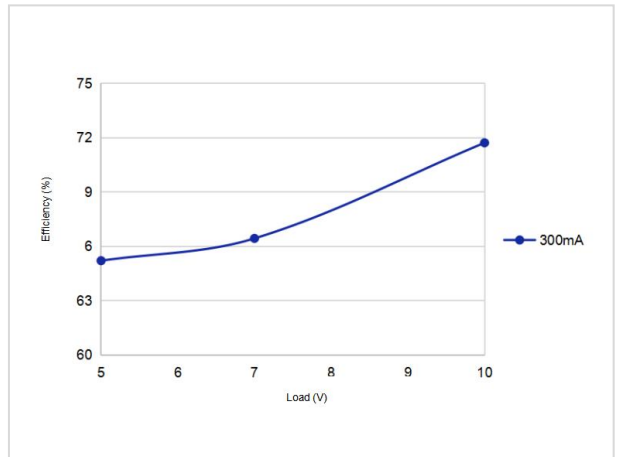
Efficiency Curves 1



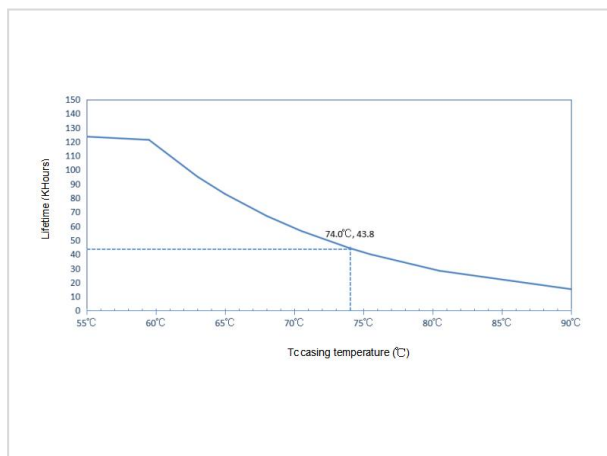
DF Curves 2



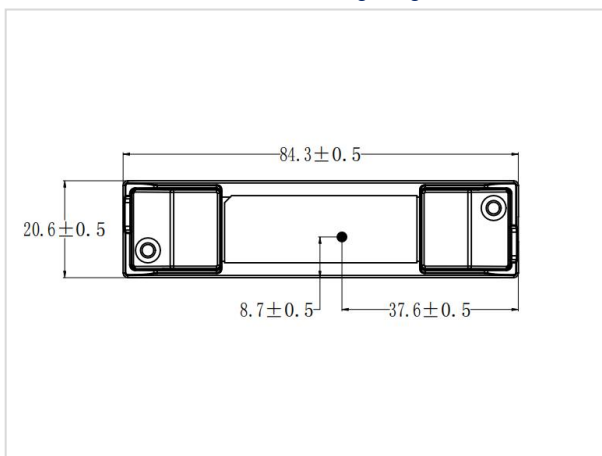
Efficiency Curves 2



Lifetime Curve



Tc Point Testing Diagram



■ Definitions of Product Terminals

INPUT	
AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire

OUTPUT	
LED+	Positive Electrode Output of LED Driver
LED-	Negative Electrode Output of LED Driver

■ Label

<b>Lifud</b> Model: LF-GIR003YSIIxxxxH		0.3mm	
Un: 220-240V ~		In: 0.06A	
INPUT		OUTPUT	
AC-L	Uout: 2-4V ~ max. 16Vdc	LED+	
AC-N	Iout: xxxmA(CC) ta: 50°C	LED-	
0.15-1.5Ω	Fri: 50/60Hz • tc: 80°C		
	Pout: x.xW DF: >0.5		

Top casing

Bottom casing

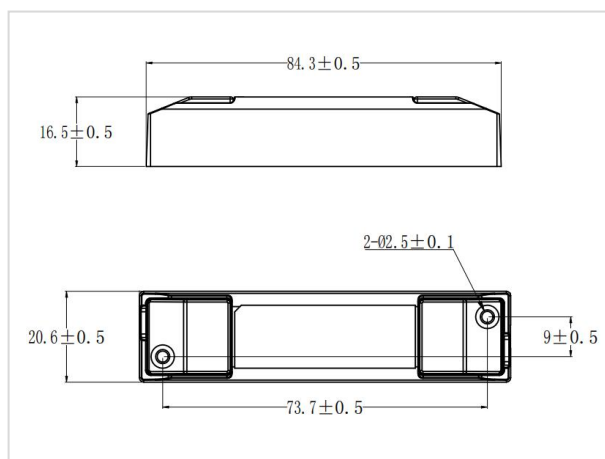
<b>Lifud</b> Model: LF-GIR003YSIIxxxxH(D)		0.3mm	
Un: 220-240V ~		In: 0.06A	
INPUT		OUTPUT	
AC-L	Uout: 5-10V ~ max. 35Vdc	LED+	
AC-N	Iout: xxxmA(CC) ta: 50°C	LED-	
0.15-1.5Ω	Fri: 50/60Hz • tc: 80°C		
	Pout: x.xW DF: >0.5		

Top casing

Bottom casing

■ Structures and Dimensions (unit: mm)

Overall Appearance Dimensions (L×W×H)	Screw Specification
84.3×20.6×16.5 mm	Round head self-tapping screw PA3*8



■ Packaging Specifications

Model	LF-GIR003YSIIxxxxH/H(D)
Carton Size	385×285×210mm (L×W×H)
Quantity	32 pcs/layer; 11 layers/ctn; 352 pcs/ctn
Weight	0.02 kg/pc; 7.6 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 Technology Co., Ltd. reserves the right to interpret any contents of this specification.