

## **Product Description**

LF-GIR009YSxxxxH is an isolated constant current LED driver. The maximum output power is 9W. It has small size, suitable for spot light, down light, panel light, etc.

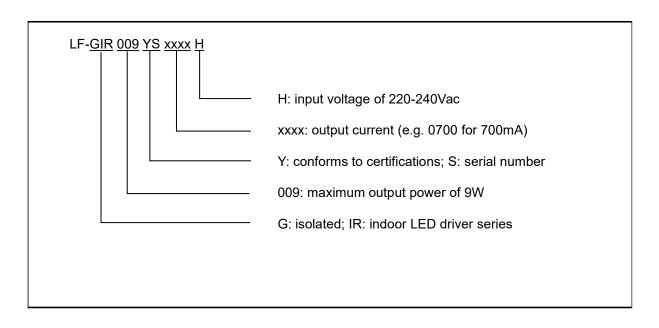
#### **Features**

- Suitable for Class II light fixtures
- External assembly
- Flicker free
- 5-year warranty (Please refer to the warranty condition.)
- Conforms to the latest harmonic current emissions standard: IEC 61000-3-2:2018+A1: 2020
- Conforms to the ERP standard: (EU) 2019/2020@2019.12.05



- Indoor office lighting
- Decorative lighting

## **Product Naming**





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# **Electrical Characteristics 1**

Model		LF-GIR009YSxxxxH								
	Output Voltage	25-42V					25-36V			
	Output Current	135mA	160r	mΑ	A 180mA		:	200mA	250mA	
	Flicker Index (Modulation Depth)	Conforms to the standard of IEEE 1789-2015								
Output	CIE SVM	≤0.4								
	IEC-Pst	≤1								
	Current Tolerance	±7%								
	Temperature Drift	±10%								
	Start-up Time	<0.5\$								
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)								
	Input Frequency	50/60Hz								
	Input Current	0.1A Max								
	DF	≥0.7								
	Efficiency	≥77%	≥78	3%	% ≥79% ≥79%		≥79%			
Input	Inrush Current	≤10A @ 80uS @220Vac								
	Load Quantity	Circuit Breake	er Model	el B10		C10		B16	C16	
	Carried by the Circuit Breaker	Quantity (pcs)	)	6	60	100		96	160	
	Leakage Current	≤0.7mA								
	Standby Power Consumption	<0.5W								
Protection	Open Circuit Protection	<80V								
Characteristics	Short Circuit Protection	Hiccup mode (auto-recovery)								
	Operating Temperature	-30℃~+50℃								
Environment	Operating Humidity	20-90%RH (no condensation)								
Description	Storage	-40°C~+ 80°C (six months under class I environment);								
	Temperature/Humidity	10-90%RH (no condensation)								
	Atmospheric Pressure	86KPa~106KPa								



# **Electrical Characteristics 2**

Model		LF-GIR009YSxxxxH						
	Output Voltage	14-24V						
	Output Current	300mA	350mA					
	Flicker Index (Modulation Depth)	Conforms to the standard of IEEE Std 1789-2015						
Output	CIE SVM	≤0.4						
	IEC-Pst	≤1						
	Current Tolerance	±7%						
	Temperature Drift	±10%						
	Start-up Time	<0.5\$						
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)						
	Input Frequency	50/60Hz						
	Input Current	0.1A Max						
	DF	≥0.7						
	Efficiency	≥79% ≥79%						
Input	Inrush Current	≤10A @ 80uS @220Vac						
	Load Quantity	Circuit Breaker Model	B10	C10	B16	C16		
	Carried by the Circuit Breaker	Quantity (pcs)	60	100	96	160		
	Leakage Current	≤0.7mA						
	Standby Power Consumption	<0.5W						
Protection	Open Circuit Protection	<55V						
Characteristics	Short Circuit Protection	Hiccup mode (auto-recovery)						
Environment Description	Working Temperature	-30℃~+50℃						
	Working Humidity	20-90%RH (no condensation)						
	Storage	-40℃~+ 80℃ (six months under class I environment);						
	Temperature/Humidity							
	Atmospheric Pressure	86KPa~106KPa						



# **Electrical Characteristics 3**

Model		LF-GIR009YSxxxxH(L)		LF-G	LF-GIR009YSxxxxH			
	Output Voltage	8-13V						
	Output Current	500mA	600mA		700mA			
	Flicker Index (Modulation Depth)	Conforms to the standard of IEEE Std 1789-2015						
Output	CIE SVM	≤0.4						
	IEC-Pst	≤1						
	Current Tolerance	±7%						
	Temperature Drift	±10%						
	Start-up Time	<0.5S						
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)						
	Input Frequency	50/60Hz						
	Input Current	0.1A Max						
	DF	≥0.7						
	Efficiency	≥79%						
Input	Inrush Current	≤10A & 80uS @220Vac						
	Load Quantity	Circuit Breaker Model	B10	C10	B16	C16		
	Carried by the Circuit Breaker	Quantity (pcs)	60	100	96	160		
	Leakage Current	≤0.7mA						
	Standby Power Consumption	<0.5W						
Protection	Open Circuit Protection	<30V						
Characteristics	Short Circuit Protection	Hiccup mode (auto-recovery)						
	Working Temperature	-30℃~+50℃						
Environment Description	Working Humidity	20-90%RH (no condensation)						
	Storage	-40°C~+ 80°C (six months under class I environment);						
	Temperature/Humidity	10-90%RH (no condensation)						
	Atmospheric Pressure	e 86KPa~106KPa						



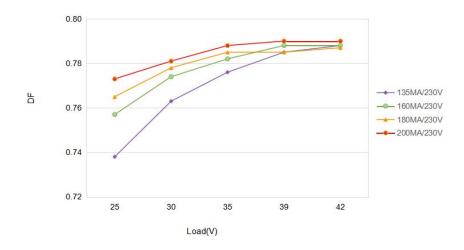
# **Other Electrical Characteristics**

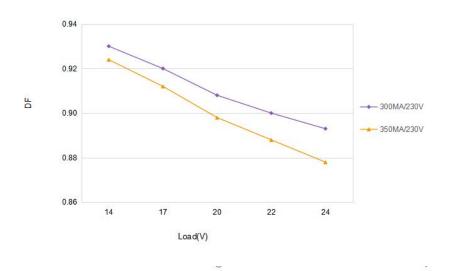
	Certifications	ENEC、TUV、CCC、RCM、CE、CB、UKCA			
	Withstanding Voltage	I/P-O/P: 3.75KV, 5mA, 60S			
	Insulation Resistance	I/P-O/P: >100MΩ @ 500Vdc			
		ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384 2016/A1:2009			
		CE-LVD: EN 61347-2-13:2014/A1:2017,EN 61347-1:2015,EN 62493:2015			
		CB:IEC 61347-1:2015, IEC61347-2-3:2014, IEC			
Safety &	Safety Standards	61347-2-13:2014/AMD1:2016			
Electromagnetic		UKCA-LVD:EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017			
Compatibility		EN 62493:2015			
		RCM:AS 61347.2-13:2018 CCC:GB19510.1-2009, GB19510.14-2009			
		CE-EMC/RCM:EN55015, EN61000-3-2, EN61000-3-3			
		UKCA-EMC:EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC			
	EMI	61000-3- 2:2019/A1:2021, EN 61000-3-3:2013/A2:2021			
		CCC:GB/T17743, GB17625.1, GB17625.2			
	F140	CE-EMC/RCM: EN61000-4-2, 3, 4, 5(lightning strike 1KV), 6, 11			
	EMS	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≤77°C)			
Test Equipment	chamber lightning curae generator: Evertine EMS61000 FR rapid group pulse generator				
	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. 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				
Remarks	it's strongly recommended the LED light fixture manufacturer re-confirms the EMC of the				
	whole LED light fixture.				
	3. The test conditions of the circuit breaker configuration quantity are the same as those of the				
	inrush current test.  4. Unless otherwise stated, the parameters above were test results under the ambient				
	temperature of 25°C, humidity of 50%, input voltage of 220Vac/50Hz and full load.				
	temperature of 20 C, numberly of 30 /0, input voltage of 220 vac/30112 and full load.				

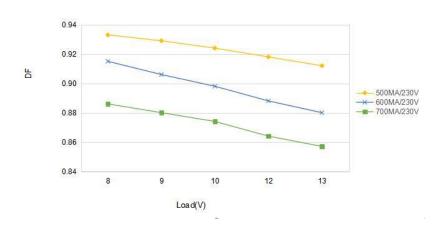


## **Product Characteristic Curves**

#### **■ DF Curves**

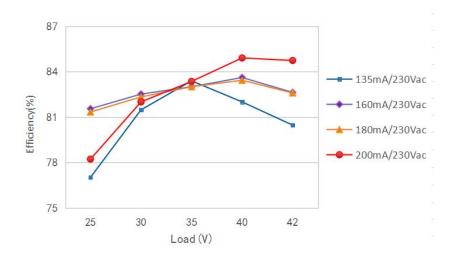


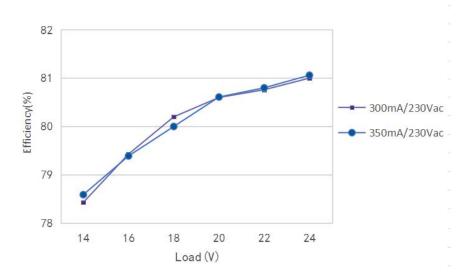


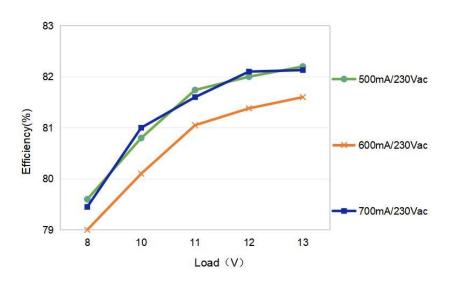




## **■** Efficiency Curves

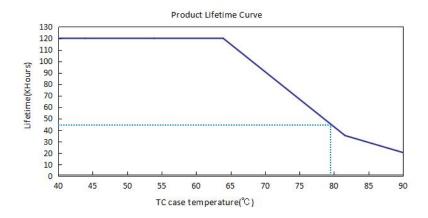








#### **■** Lifetime Curve



## **Definition of Terminals**

#### **INPUT**

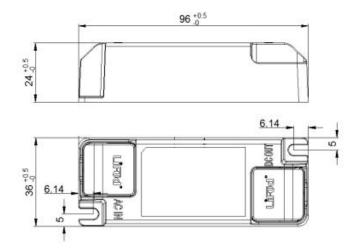
AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire

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#### OUTPUT

LED+	Positive electrode output of the driver
LED-	Negative electrode output of the driver

# **Dimensions (unit: mm)**





#### **Packaging Specifications**

Model	LF-GIR009YSxxxxH
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	23 pcs/layer; 7 layers/ctn; 161 pcs/ctn
Weights	0.042 kg/pc; 6.65 kg/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.

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