

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, etc.

Features

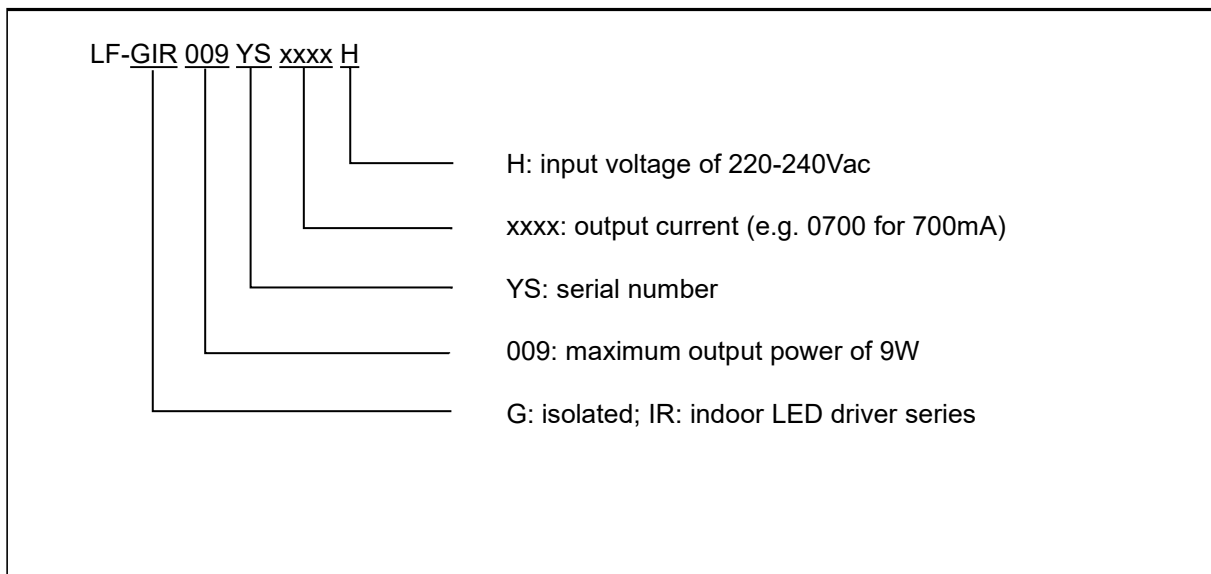
- Suitable for Class II light fixtures
- External assembly
- Flicker free
- 5-year warranty (Please refer to the warranty condition.)



Applications

- Indoor office lighting
- Decorative lighting

Product Naming



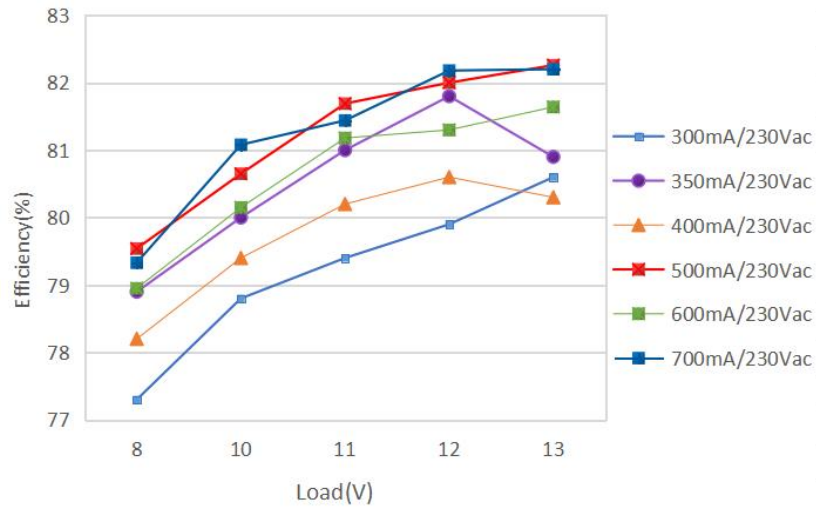
Electrical Characteristics

Model		LF-GIR009YSxxxxH						
Output	Output Voltage	10-13V (voltage limit: 8-13V)						
	Output Current	300mA	350mA	400mA	500mA	600mA	700mA	
	Flicker Index (Modulation Depth)	<0.5%						
	CIE SVM	≤0.4						
	IEC-Pst	≤1						
	Current Tolerance	±7%						
	Temperature Drift	±10%						
	Start-up Time	<0.5S						
Input	Input Voltage	100-240Vac (voltage limit: 100-264Vac)						
	Input Frequency	47Hz-63Hz						
	Input Current	0.2A Max						
	PF	≥0.4						
	Efficiency	≥78%	≥78%	≥78%	≥79%	≥79%	≥79%	
	Inrush Current	≤40A @ 100uS @220Vac						
	Loading Quantity on Circuit Breaker	Model	B10		C10		B16 C16	
		Quantity (pcs)	21		35		35 56	
	Leakage Current	≤0.7mA						
	Standby Power Consumption	≤1W						
Protection Characteristics	Open Circuit Protection	<30V						
	Short Circuit Protection	Hiccup mode (auto-recovery)						
Environment Description	Operating Temperature	-30℃~+50℃						
	Operating Humidity	20-90%RH (no condensation)						
	Storage Temperature/Humidity	-40℃~+ 80℃ (six months under class I environment);						
		10-90%RH (no condensation)						
Atmospheric Pressure	86KPa~106KPa							

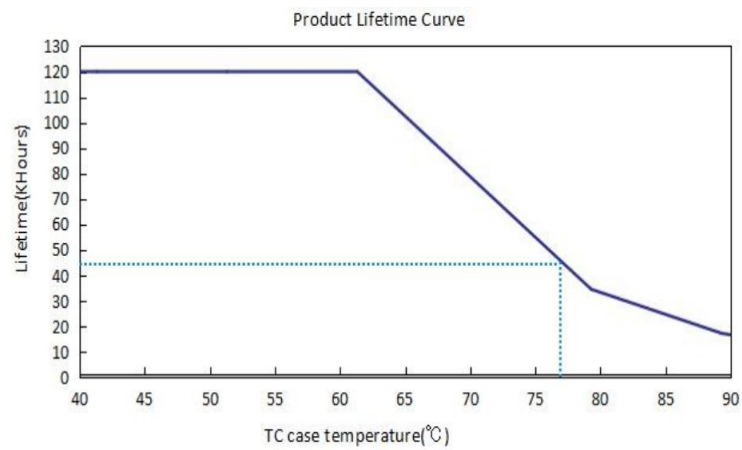
Safety & EMC	Certifications	/
	Withstanding Voltage	I/P-O/P: 3.75KV, 5mA, 60S
	Insulation Resistance	I/P-O/P: >100MΩ @ 500Vdc
	Safety Standards	/
	EMI	/
	EMS	CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1KV), 6, 11
Others	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty Condition	5 yrs (Tc≤77°C)
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-free tester (flicker-free coefficient tester) 60N-01, etc.	
Remarks	<ol style="list-style-type: none"> 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 number of LED drivers that can be connected to a circuit breaker and the inrush current are tested under the same conditions. 3. Unless otherwise stated, the parameters above were test results under the ambient temperature of 25°C, humidity of 50%, input voltage of 230Vac/50Hz and full load. 	

Product Characteristic Curves

■ Efficiency Curves



■ Lifetime Curve



Definition of Terminals

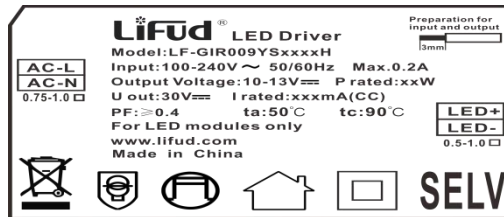
INPUT

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

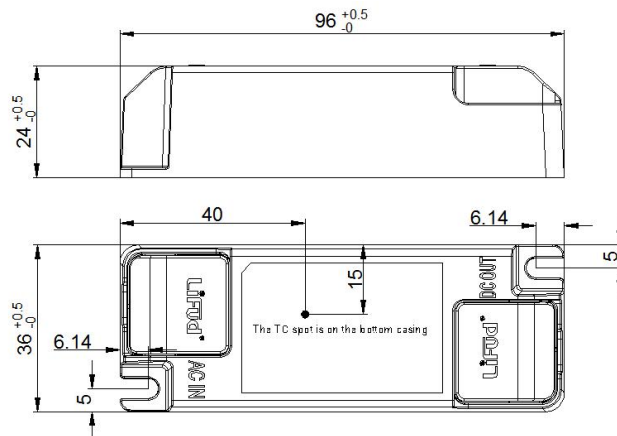
OUTPUT

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

Label



Dimensions (unit: mm)



Packaging Specifications

Model	LF-GIR009YSxxxxH
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantity	20 pcs/layer; 8 layers/ctn; 160 pcs/ctn
Weight	0.042 kg/pc; 8.5 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 content of this data sheet belongs to Lifud Technology Co., Ltd.