

Product Description

LF-GIR007YSxxxxH is a 7W isolated constant current LED driver. It has a compact size with plastic casing design. The rated input voltage range is 220-240Vac. The output voltage range is 30-40Vdc. The output current has 5 options, including 180mA, 160mA, 135mA, 110mA and 70mA.

Features

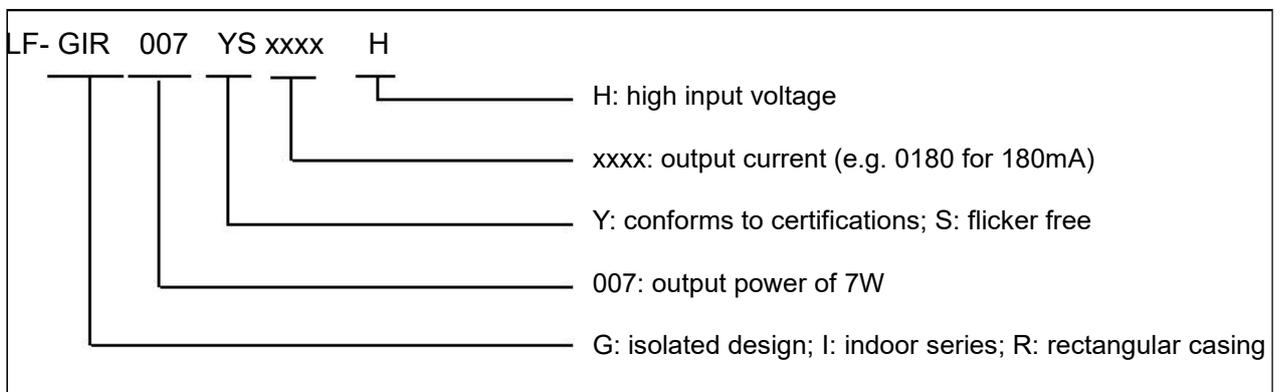
- IP20
- Built-in assembly
- Plastic casing
- Flicker free
- Suitable for Class II light fixtures
- 5-year warranty (Please refer to the warranty condition.)



Applications

- Down light
- Spot light
- Wall light

Product Naming



Electrical Characteristics

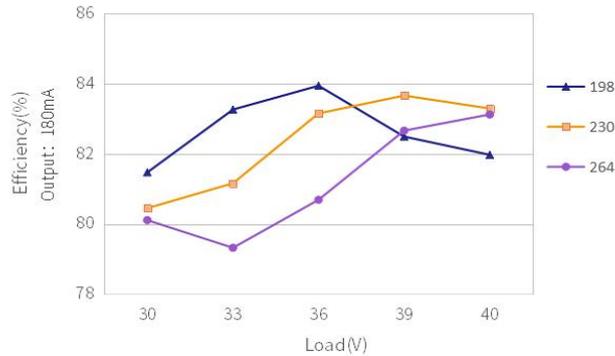
Model		LF-GIR007YS 0180H	LF-GIR007YS 0160H	LF-GIR007YS 0135H	LF-GIR007YS 0110H	LF-GIR007YS 0070H
Output	Output Voltage	30-40Vdc				
	Output Current	180mA	160mA	135mA	110mA	70mA
	Percent Flicker (Modulation Depth)	<0.5%				
	Current Tolerance	±7%				
	Temperature Drift	±10%				
	Start-up Time	<0.5S@230Vac				
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	DC Input Voltage	280-340Vdc				
	Input Frequency	47Hz-63Hz				
	Input Current	0.12A max.				
	Power Factor	≥0.47	≥0.45	≥0.43	≥0.43	≥0.40
	Efficiency	≥81%	≥80%	≥78%	≥77%	≥68%
	In-rush Current	≤40A & 110uS @230Vac				
	The Load Quantity that the Circuit Breaker can Carry	Circuit Breaker Model	B10	B16	C10	C16
		Quantity (pcs)	24	38	40	64
Leakage Current	≤0.7mA					
Protection Characteristics	Open Circuit Protection	<70V				
	Short Circuit Protection	Hiccup mode (auto-recovery)				

Environment Descriptions	Working Temperature	-20°C~+50°C
	Working Humidity	20-90%RH (no condensation)
	Storage Temperature/ Humidity	-30°C~+60°C (six months under class I environment); 10-95%RH (no condensation)
	Atmospheric Pressure	86kPa~106kPa
Safety and Electromagnetic Compatibility	Certification	CE, CB, RCM, SAA, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV, 5mA, 60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standard	EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 IEC 61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 AS 61347.2-13: 2018 GB19510.1-2009, GB19510.14-2009
	EMI	EN55015, EN61000-3-2, EN61000-3-3 GB/T17743, GB17625.1, GB17625.2
	EMS	EN61000-4-2, 3, 4, 5 (lightning strike of 1KV), 6, 11 GB/T17626.2, 3, 4, 5 (lightning strike of 1KV), 6, 11
Others	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 yrs (TC≤77°C)

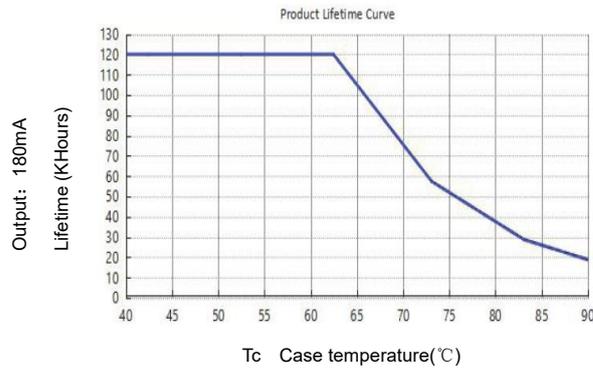
Remarks	<ol style="list-style-type: none"> 1. It is recommended that customers should install overvoltage and undervoltage protection devices and surge protection devices to ensure safety before connecting to electricity. 2. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of the whole LED light fixture. 3. The test conditions of the configuration quantity of the circuit breaker are the same as those of the in-rush current test. 4. Unless otherwise stated, the parameters of the power factor and efficiency are the test results under the ambient temperature of $25\pm 5^{\circ}\text{C}$, the humidity of 50%, the input voltage of 230Vac and full load.
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Product Characteristic Curves

Efficiency Curve



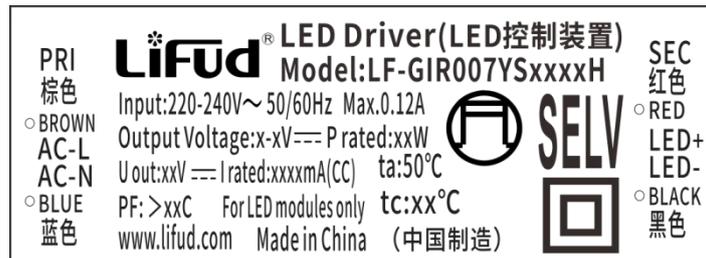
Lifetime Curve



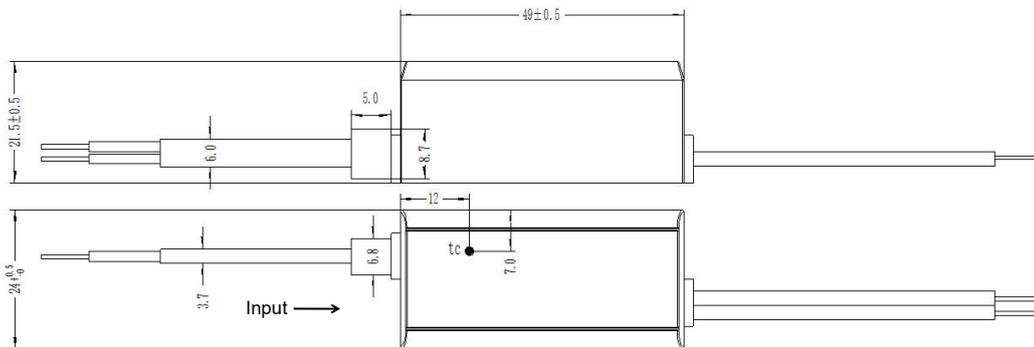
Definitions of Wires

INPUT		OUTPUT	
AC-L	Brown wire	LED+	Red wire
AC-N	Blue wire	LED-	Black wire

Label



Structure & Dimensions (Unit: mm)



Input		Output	
Length (mm)	Tinned (mm)	Length (mm)	Tinned (mm)
100±5	5	180±5	5

Input wire: 2*0.75mm² Ø2.0±0.3mm; output wire: 2*0.5mm² Ø2.2±0.3mm

Package Specifications

Model	LF-GIR007YSxxxxH
Box Size	385*285*210 mm (L*W*H)
Quantity	28 pcs/layer; 6 layers/ctn; 168 pcs/ctn
Weight	0.028kg/pc; 5.8kg/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.