

LF-GIR007YS(B)xxxxH (5-10VDC) 220-240VAC Flicker-Free LED Driver for Built-in Assembly

Product Description

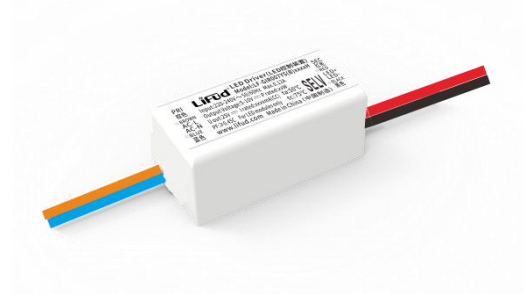
LF-GIR007YS(B)xxxxH is a 7W isolated constant current LED driver. It has a compact size with a plastic casing. Its rated input voltage ranges from 220VAC to 240VAC. Its output voltage ranges from 5VDC to 10VDC with output currents of 700mA, 600mA, 500mA and 350mA.

Feature

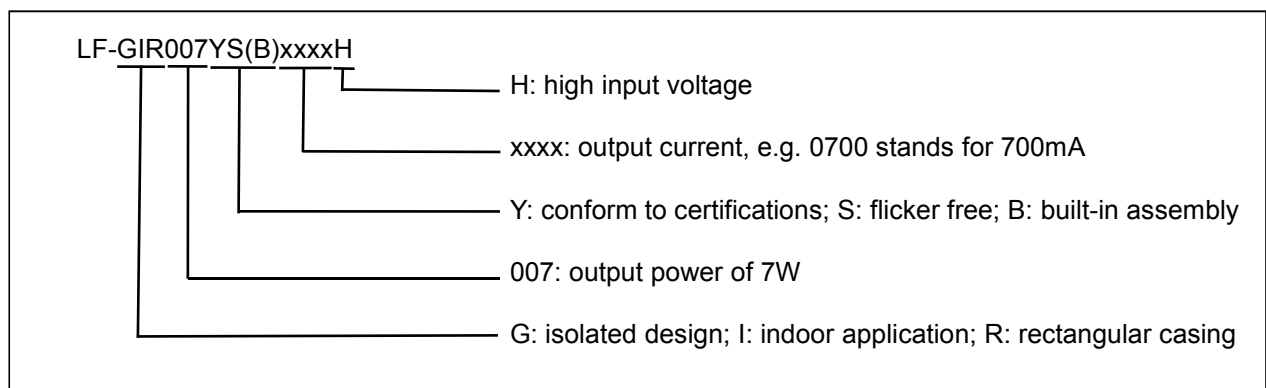
- IP20
- Electrical type: isolated driver (suitable for Class II light fixtures)
- Description: 220-240VAC flicker-free LED driver for built-in assembly
- Product feature: percent flicker $\leq 0.5\%$
- Certification: CE, CB, RCM, SAA, CCC

Application

- Down light
- Spot light
- Wall light



Product Naming



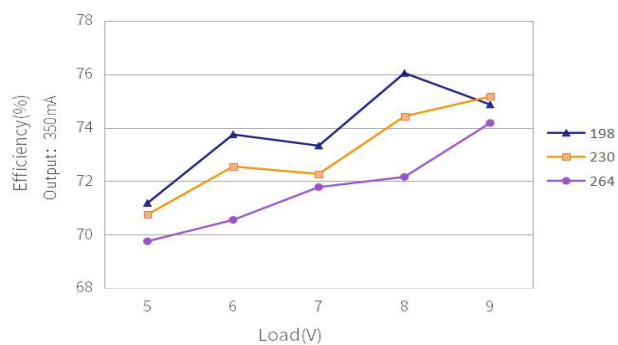
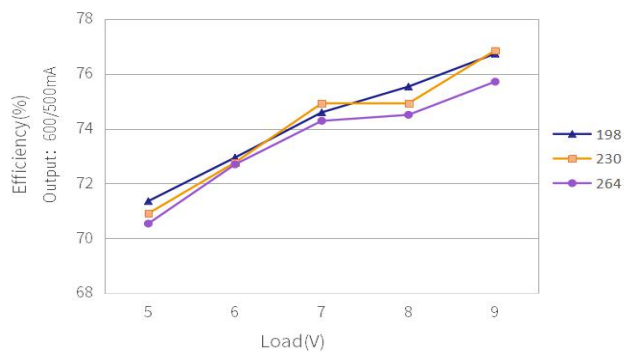
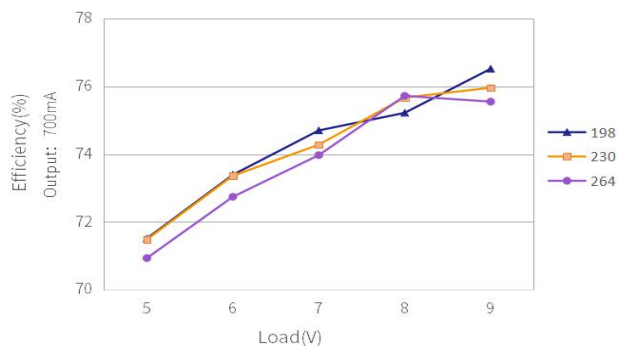
Electrical Characteristic

Model		LF-GIR007YS(B) 0700H	LF-GIR007YS(B) 0600H	LF-GIR007YS(B) 0500H	LF-GIR007YS(B) 0350H
Output	Output Voltage	5-10VDC			
	Output Current	700mA	600mA	500mA	350mA
	Percent Flicker (Fluctuation Depth)	<0.5%			
	Current Accuracy	±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	≥0.45	≥0.45	≥0.45	≥0.40
	Efficiency	≥74%	≥74%	≥74%	≥71%
	In-rush Current	≤40A & 110uS @230VAC			
	The Load Quantity that the Circuit Breaker can Carry	Circuit Breaker Model	B10	B16	C10
		Quantity (pcs)	24	38	40
Protection Characteristic	Open Circuit Protection	<35V			
	Short Circuit Protection	Hiccup mode (auto-recovery)			
Environment Description	Working Temperature	-20℃~+50℃			
	Working Humidity	20-90%RH (no condensation)			
	Storage	-30℃~+60℃ (six months under class I environment);			

	Temperature/ Humidity	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: 500VDC, >100MΩ			
	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	3 yrs (TC≤88℃)	4 yrs (TC≤73℃)	4 yrs (TC≤73℃)	5 yrs (TC≤78℃)
Remark	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±5℃, the humidity of 50%, the input voltage of 230VAC and full load.				

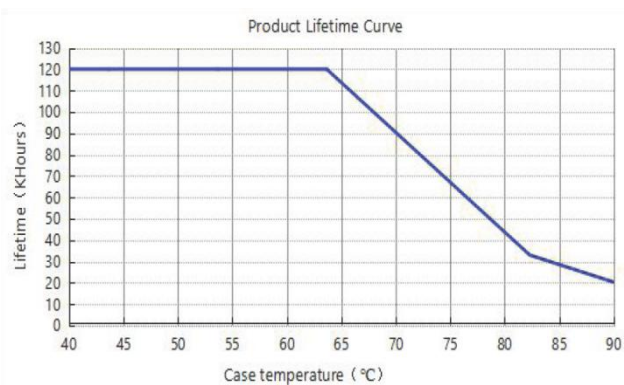
Product Characteristic Curve

Efficiency Curve

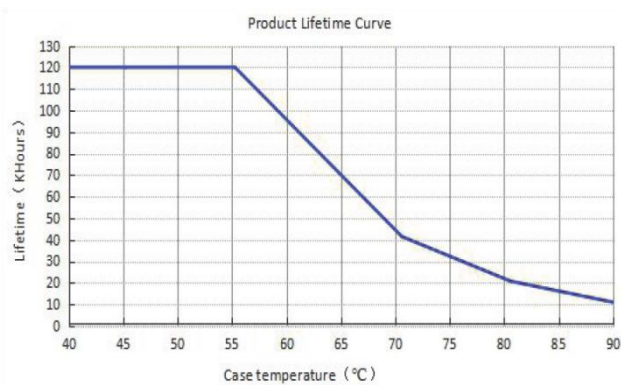


Lifetime Curve

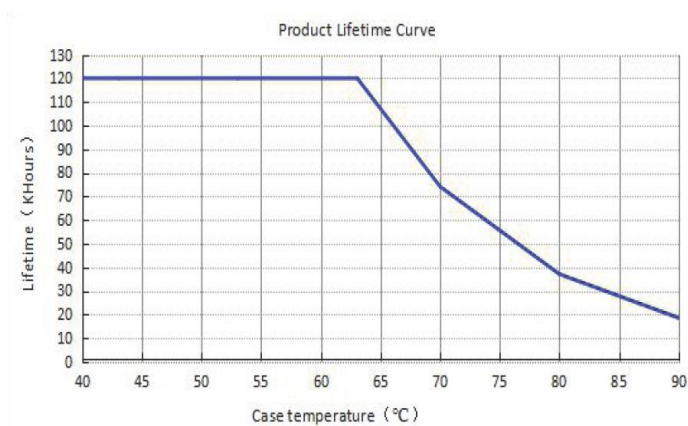
Output: 700mA



Output: 600/500mA



Output: 350mA



Wire Colour

INPUT

AC-L	Brown wire
AC-N	Blue wire

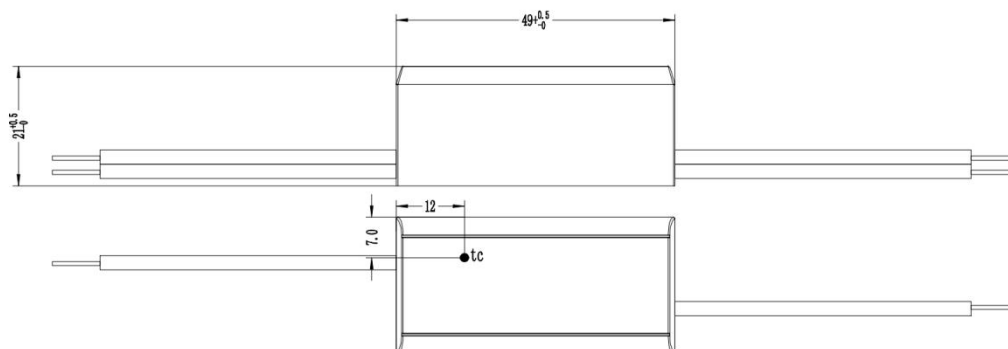
OUTPUT

LED+	Red wire
LED-	Black wire

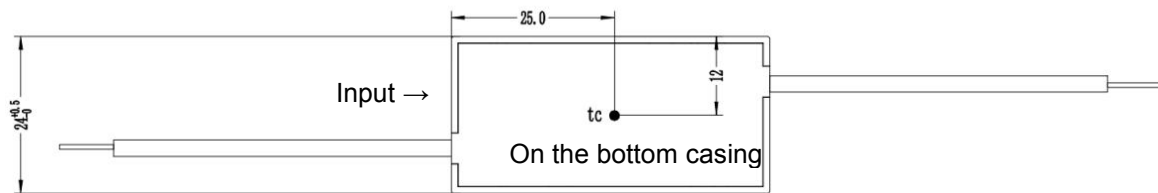
Label

PRI 棕色	Lifud® LED Driver(LED控制装置)	SEC 红色
○ BROWN	Model: LF-GIR007YS(B)xxxxH	○ RED
AC-L	Input: 220-240V ~ 50/60Hz Max. 0.12A	LED+
AC-N	Output Voltage: x-xV --- P rated: xxW	LED-
○ BLUE	U out: xxV --- I rated: xxxmA(CC) ta: 50°C	○ BLACK
蓝色	PF: >xxC For LED modules only tc: xx°C	黑色
	www.lifud.com Made in China (中国制造)	

Structure & Dimension (Unit: mm)



The TC spot on the LF-GIR007YS(B)0600H/0350H



The TC spot on the LF-GIR007YS(B)0700H/0500H

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

Input wire: 2*0.75mm² Ø2.8±0.3mm; output wire: 2*0.5mm² Ø2.2±0.3mm

Package Specification

Model	LF-GIR007YS(B)xxxxH
Box Size	385*285*210 mm (L*W*H)
Quantity	28 pcs/layer; 6 layers/ctn; 168 pcs /ctn
Weight	0.028 kg/pc; 5.8 kg/ctn

Transportation & Storage

1. Transportation

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.

2. Storage

Storage in accordance with the provisions of the Class I environment. Products which have been stored for more than six months must be re-inspected. Use them only if they can pass the re-inspection.

Attention

- * Use this product according to the specifications, please. Otherwise there may be malfunction.
- * Use luminaires that have not been certified or are not compatible with the drivers may cause fire, explosion or other hazards.
- * Man-made damage is not covered by warranty.

Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.

Change Resume

Version	Content of Change	Date	Remark
V1.0	Initial release	10 MAR 2020	
V1.1	Formal release	23 APR 2020	Updated according to the latest template
V1.2	1. Added the load quantity that the circuit breaker can carry 2. Added the length tolerance of the wires 3. Changed the packaging	18 MAY 2020	