Product Description

LF-GMR030YSII is a flicker free LED driver with metal casing design. The rated input voltage range is 220-240Vac. The maximum output power is 31.5W. The output voltage range is 33-42Vdc. The output current range is 600-750mA. It has features of high efficiency and excellent flicker free effect, and it is suitable for linear light, tri-proof light, etc.

Features

- Two-stage design
- Flicker free
- High performance, high efficiency, low THD
- Suitable for Class I light fixtures
- 5-year warranty (Please refer to the warranty condition.)

Applications

- Linear light
- Tri-proof light

Product Naming

LF-GMR 030 YS Ⅱ xxxx H

- H: input voltage: 220-240Vac
- xxxx: rated output current (e.g. 0750 for 750mA)
- Ⅱ: the second generation of one series
- Y: conforms to certifications; S: a serial number
- 030: rated output power: 30W
- G: isolated design; MR: tri-proof light LED driver series

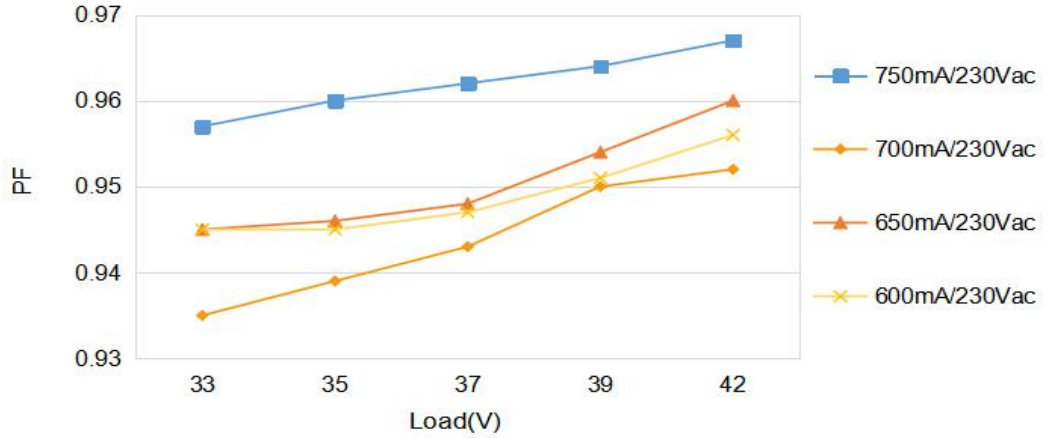
Electrical Characteristics

Model		LF-GMR030YSIIxxxxH				
Output	Output Voltage	33-42Vdc				
	Output Current	600mA	650mA	700mA	750mA	
	Flicker	Conforms to the standard of IEEE 1789.				
	CIE SVM	≤0.4				
	IEC-Pst	≤1				
	Current Tolerance	±5%				
	Temperature Drift	±10%				
	Startup Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 200-264Vac)				
	DC Input Voltage	200-264Vdc				
	Input Frequency	47Hz-63Hz				
	Input Current	0.19A Max.				
	Power Factor	≥0.9				
	THD	≤20%				
	Efficiency	≥87%				
	In-rush Current	≤20A@130uS				
	Load Quantity Carried by the Circuit Breaker	Circuit Breaker Model	B10	C10	B16	C16
		Quantity (pcs)	40	59	65	95
	Leakage Current	≤0.7mA				
	Standby Power Consumption	≤0.5W				
Protections	Open Circuit Protection	<55V				
	Short Circuit Protection	Hiccup mode (auto-recovery)				
Environment Descriptions	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				

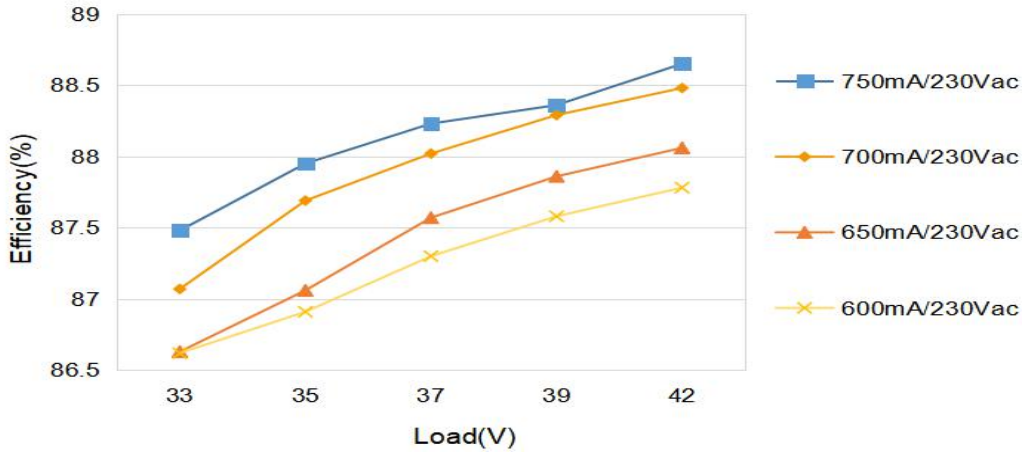
Safety and Electromagnetic Compatibility	Certifications	ENEC, CB, CE, RCM, CCC, SAA
	Withstanding Voltage	I/P-O/P: 3.75kVac/5mA/60S; I/P-PG: 1.5KVac/5mA/60S; O/P-PG: 0.5KVac/5mA/60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	EN61347-1: 2015, EN61347-2-13: 2014/A1: 2017, EN62384: 2016/A1: 2009, EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015 IEC 61347-1: 2015, IEC61347-2-3: 2014, IEC61347-2-13: 2014/AMD1: 2016 AS61347.2-13: 2018 GB19510.1-2009, GB19510.14-2009
	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, 6, 11 (L-N: 1KV, L/N-PG: 2KV) CCC: GB/T17626.2, 3, 4, 5, 6, 11 (L-N: 1KV L/N-PG: 2KV)
Others	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 yrs (Tc≤72℃)
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, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
Remarks	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. 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 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 of the power factor, harmonic and efficiency were test results under the ambient temperature of 25℃, humidity of 50%, input voltage of 230Vac/50Hz and full load.	

Characteristic Curves

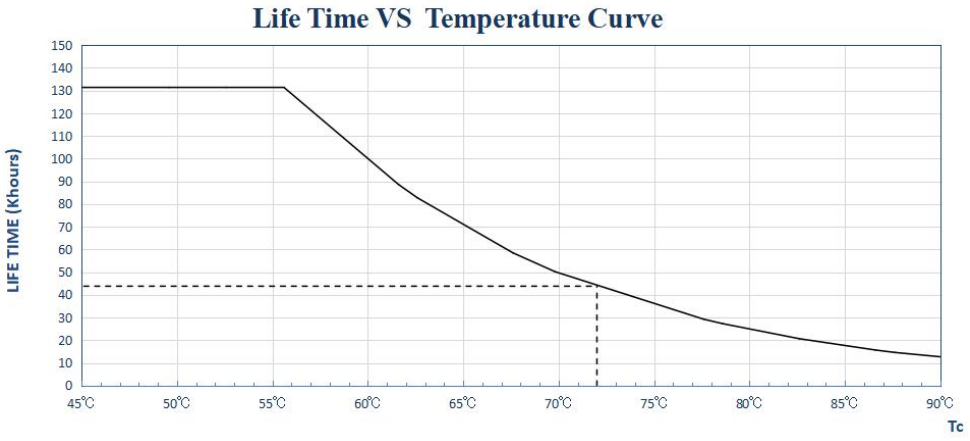
■ PF Curve



■ Efficiency Curve



■ Lifetime Curve



Definition of Driver's Terminals

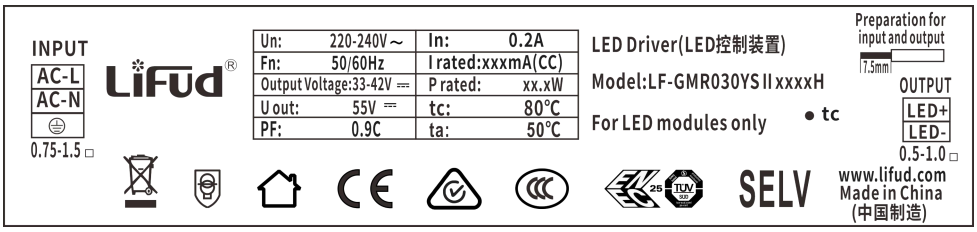
INPUT

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

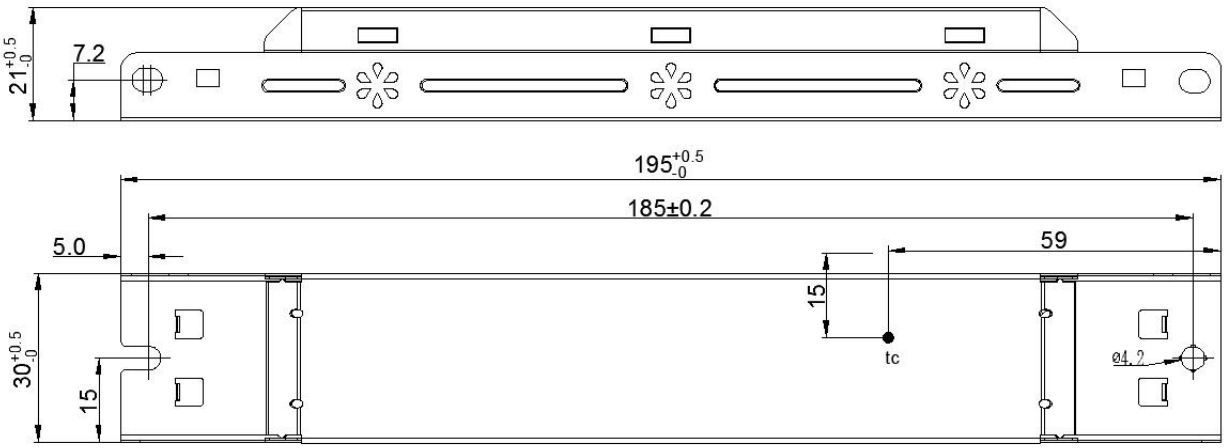
OUTPUT

LED+	The driver's positive electrode output
LED-	The driver's negative electrode output

Label



Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-GMR030YSII
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	8 pcs/layer; 6 layers/ctn; 48 pcs/ctn
Weights	0.135 kg±5%/pc; 7.33 kg±5%/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.