

Product Description

LF-GMR040YSII is a flicker free LED driver with metal casing. Rated input voltage: 220-240Vac; maximum output power: 40W; output voltage: 33-42Vdc; output current: 800-1050mA. It has features of high efficiency and excellent flicker free effect, suitable for linear light, tri-proof light and etc.

Features

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

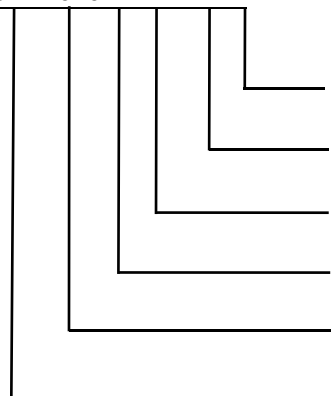


Applications

- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Residential lighting

Product Naming

LF-GMR 040 YS IIxxxx H



H: input voltage of 220-240Vac

xxxx: output current (e.g. 1050 for 1050mA)

II: Gen.II

Y: conforms to certifications; S: a serial number

040: rated output power of 40W

G: isolated design; MR: linear LED driver

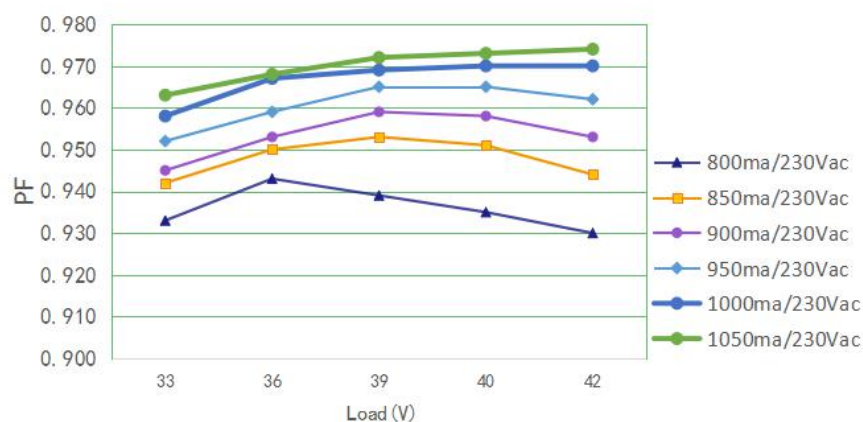
Electrical Characteristic

Model		LF-GMR040YSIIxxxxH					
Output	Output Voltage	33-42V					
	Output Current	800mA	850mA	900mA	950mA	1000mA	1050mA
	Flicker Index	IEC-Pst $\leq$ 1; CIE SVM $\leq$ 0.4; Modulation Depth $\leq$ 0.5% (IEEE 1789)					
	Current Tolerance	$\pm$ 5%					
	Temperature Drift	$\pm$ 10%					
	Start-up Time	<0.5S					
Input	Input Voltage	200-264Vac (Rated voltage: 220-240Vac)					
	DC Input Voltage	200-280Vdc					
	Input Frequency	47Hz-63Hz					
	Input Current	0.26A					
	Power Factor	$\geq$ 0.95@230Vac					
	THD	$\leq$ 20%@230Vac					
	Efficiency	$\geq$ 88%@230Vac					
	In-rush Current	$\leq$ 30A & 200uS @230Vac					
	Load Quantity Carried by the Circuit Breaker	Circuit Breaker Model	B10	C10	B16	C16	
		Quantity (pcs)	13	21	20	35	
	Leakage Current	$\leq$ 0.7mA					
	Standby Power Consumption	$\leq$ 0.5W					
Protection	Open Circuit Protection	<55V					
	Short Circuit Protection	Hiccup mode (auto-recovery)					
Environment Description	Operating Temperature	-30 $^{\circ}$ C~+50 $^{\circ}$ C					
	Operating Humidity	20-90%RH (no condensation)					
	Storage Temperature/ Humidity	-40 $^{\circ}$ C~+ 80 $^{\circ}$ C (six months under class I environment); 10-90%RH (no condensation)					
	Atmospheric Pressure	86KPa~106KPa					

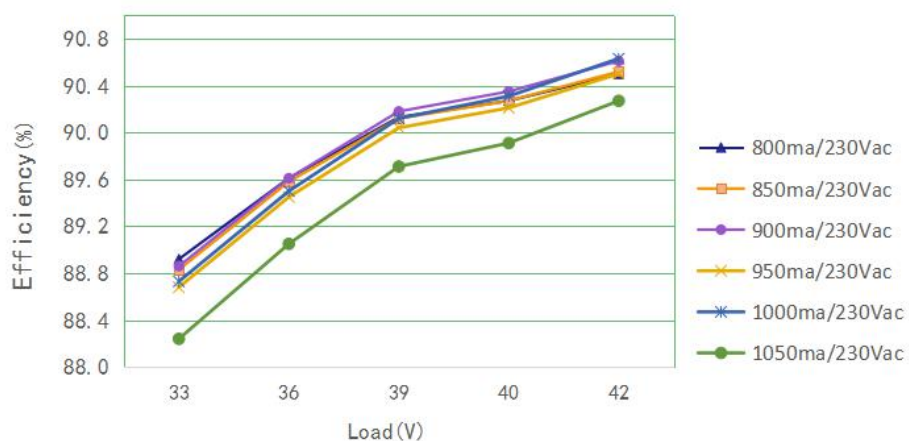
Safety and Electromagnetic Compatibility	Certification	ENEC, CB, CE, RCM, CCC, SAA
	Withstanding Voltage	I/P-O/P:3.75kV&5mA&60S ; I/P-PG:1.5kV&5mA&60S ; O/P-PG:0.5kV&5mA&60S
	Insulation Resistance	I/P-O/P:>100MΩ@500VDC
	Safety Standard	ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384 : 2016/A1:2009 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 61347-2-13:2014/AMD1:2016 CCC: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≤83℃)
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: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, 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 Curve

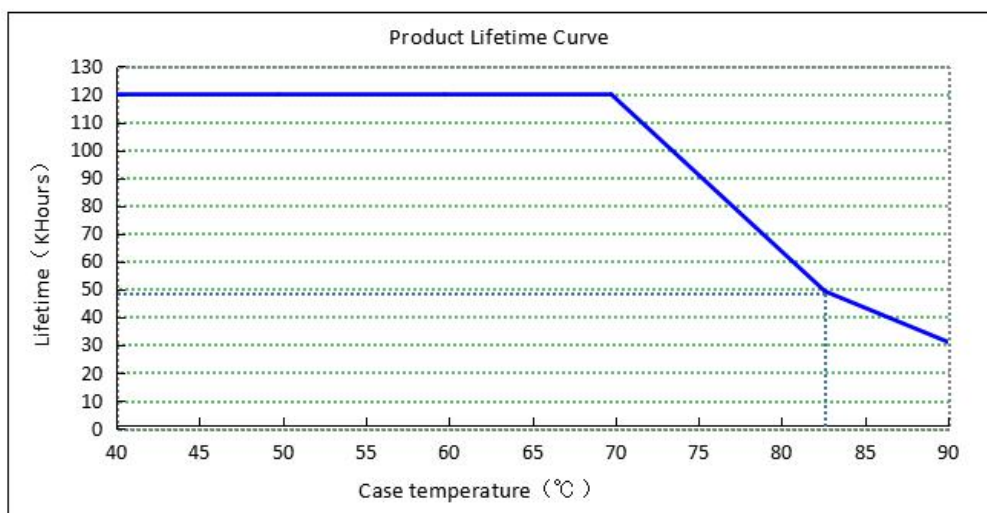
■ PF Curve



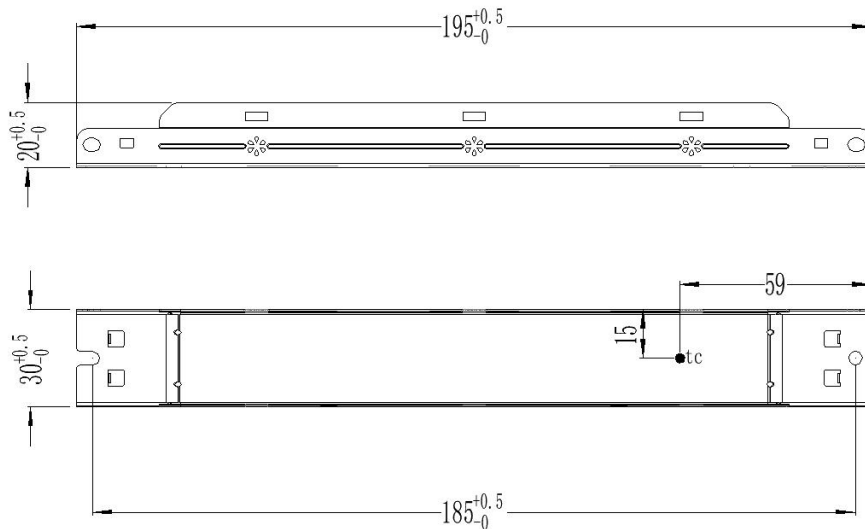
■ Efficiency Curve



■ Lifetime Curve



Tc Spot



Definition of the Driver's Terminals

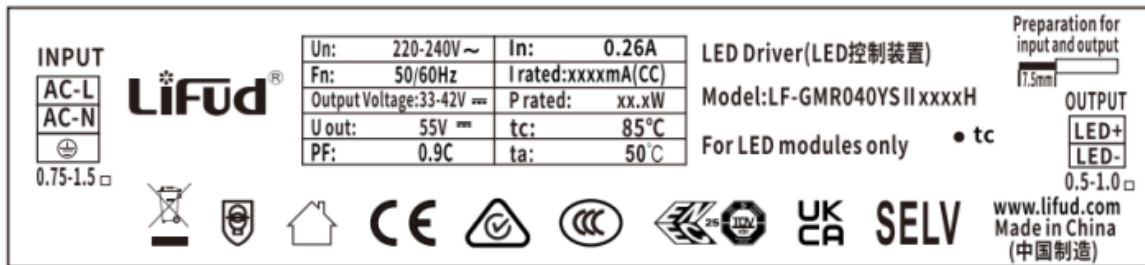
INPUT

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

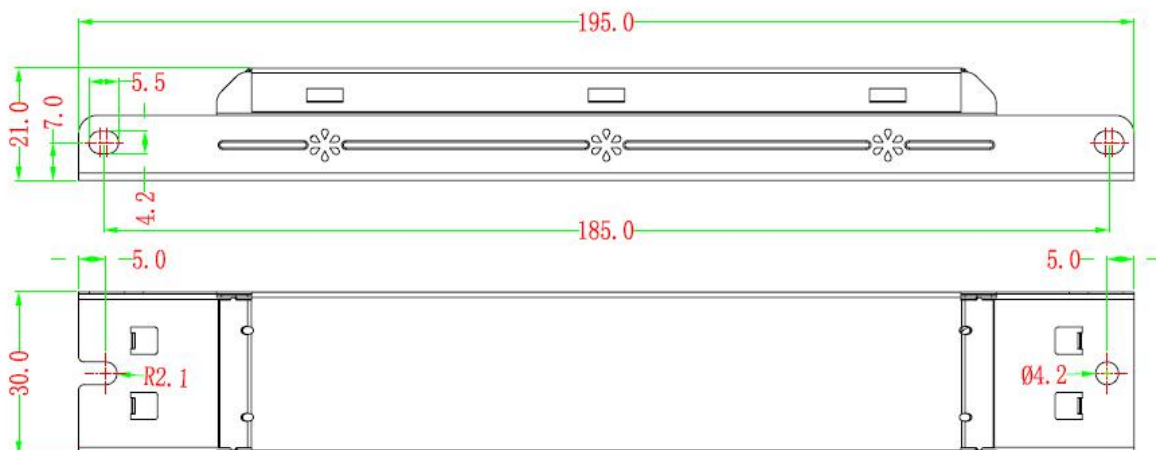
OUTPUT

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

Label



Structure&Dimensions (unit: mm)



Packaging Specifications

Model	LF-GMR040YSIIxxxxH
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	8 pcs/layer; 7 layers/ctn; 5 6 pcs/ctn
Weights	135.2g±5%/pc; 8.39kg±5%/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. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- * Use this product according to the specifications, please. Otherwise there may be malfunction.
- * Use the 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.