



Applications

Commercial lighting · indoor-office lighting · decorative lighting · residential lighting

Descriptions

LF-GMR040YSxxxxH-ELS001 is a 40W constant current LED driver. Its input voltage ranges from 220 to 240Vac. Its output current is adjustable from 250 to 400mA via DIP switch with every 50mA as a step. It is suitable for Class I light fixtures like tri-proof light and linear light.

Product Model

LF- GMR040 YS xxxx H- ELS001	
	 ELS: customized serial number H: input voltage 220-240Vac xxxx: output current (e.g. 0400 for 400mA) Y: complies with certifications; S: serial number 040: output power: 40W G: isolated design; MR: indoor metal casing tri-proof light

Lifud Technology Co., Ltd.

Electrical Characteristics

Model		LF-GMR040YSxxxxH-ELS001					
	Output Voltage	80-150Vdc	65-133	Vdc	65-114Vdc	65-100Vdc	
	Output Current	250mA	300m	A	350mA	400mA	
	Flicker Index	Complies with IEE	Complies with IEEE Std 1789				
Output	CIE SVM	≤0.4					
Output	IEC-Pst	≤1					
	Current Tolerance	±8% ±7%					
	Temperature Drift	±10%					
	Start-up Time	<0.5S@230Vac	<0.5S@230Vac				
	Input Voltage	220-240Vac (volta	ge limit: 180-2	64Vac)			
	Input Frequency	50-60Hz(47-63Hz)				
	Input Current	0.3A Max					
	PF		≥0.95@230Vac&full load				
lanut	THD	≤20%@230Vac&full load					
Input	Efficiency	≥86% @230Vac&full load ≥86.5%@230Vac&full load					
	Inrush Current	≤20A&190uS@230Vac					
	Loading Quantities	Model	B10	C10	B16	C16	
	of Circuit Breaker	Quantity (pcs)	19	22	32	35	
	Leakage Current	≤0.7mA					
	Open Circuit	<200Vdc					
Protection Characteristics	Over Voltage	No output or damage when powering on 380Vac					
	Short Circuit	Hiccup mode(auto-recovery)					
	Operating Temperature	-30°C - +50°C					
Environment	Operating Humidity	0-95%RH (no condensation)					
Environment Descriptions	Storage Temperature/ Humidity	-30°C - +80°C (6 months in Class I environment); 0-95%RH (no condensation)					
	Atmospheric Pressure	86-106kPa					

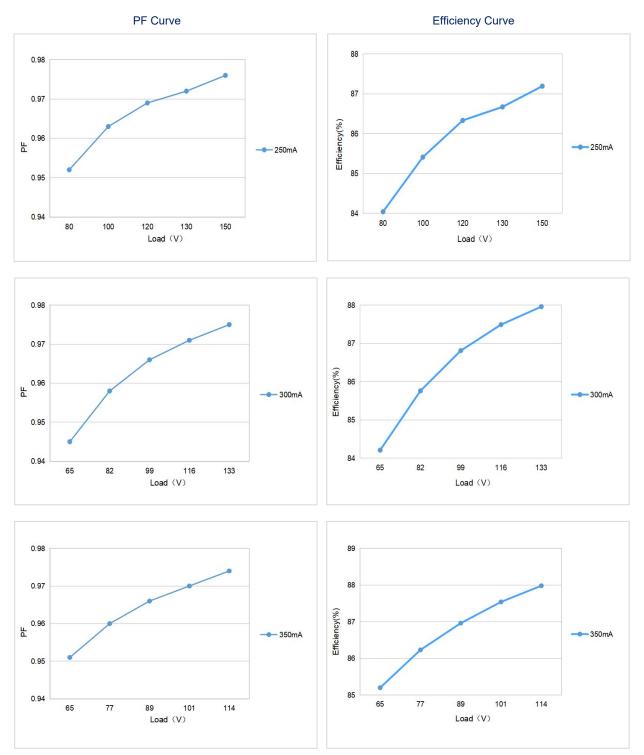
Electrical Characteristics

	Certifications	Complies with CE and EAC		
	Withstand 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 & EMC	Safety Standards	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		
	EMI	CE-EMC/RCM:EN55015, EN61000-3-2, EN61000-3-3		
	EMS	CE-EMC/RCM: EN61000-4-2,3,4,5(L-N:1KV,L/N-PG:2KV),6,11		
	IP Rating	IP20		
Other Parameters	RoHS	RoHS 2.0 (EU) 2015/863		
	Warranty	5 years (Tc≤74°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 tester (flicker-free coefficient test): Everfine LFA-3000, etc.			
Test Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz.			
Additional Remarks	 It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. It is recommended to install double-pole switch at AC input terminal. If user uses the single-pole switch, make sure to connect it to wire L (live wire), otherwise the afterglow of light fixture would be incurred after the AC is disconnected. 			

Lifud Technology Co., Ltd.

LiFud 新福德 LF-GMR040YSxxxxH-ELS001 Isolated Flicker-free Tri-proof Light LED Driver

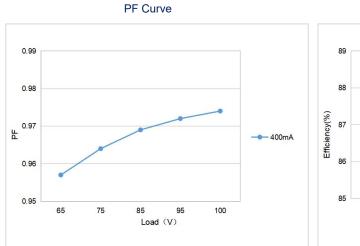
Product Characteristic Curves

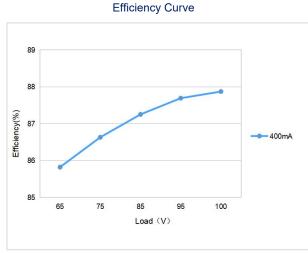


Lifud Technology Co., Ltd.

LiFud 新福德 LF-GMR040YSxxxxH-ELS001 Isolated Flicker-free Tri-proof Light LED Driver

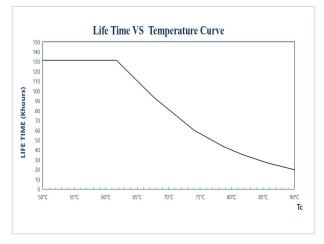
Product Characteristic Curves



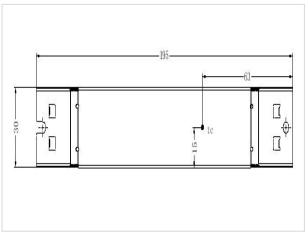


Product Characteristic Curves

Lifetime Curve







Product Definitions

Product Terminal

INPUT		
AC-L	AC live wire input	
AC-N	AC neutral wire input	
÷	Earth wire	

OUTPUT		
LED+	Positive electrode output of LED driver	
LED-	Negative electrode output of LED driver	

Lifud Technology Co., Ltd.

LiFud 新福德 LF-GMR040YSxxxxH-ELS001 Isolated Flicker-free Tri-proof Light LED Driver

Product Definitions

Product DIP Switch

I rated (CC)	1	2	3
250mA	-	-	-
300mA	ON	-	-
350mA	-	ON	-
400mA	ON	ON	ON

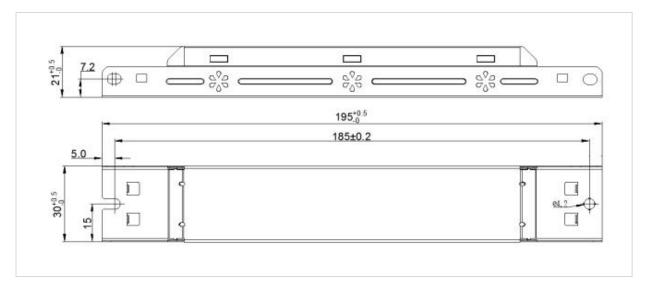
Remark: "-": shift OFF

Structure & Dimensions (unit: mm)

Product Dimensions

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes (L)	Diameter of Positioning Hole (D)
LF-GMR040YSxxxxH-ELS001	195*30*21 mm	185 mm (\pm 0.2mm)	4.2 mm

Structure Diagram



Lifud Technology Co., Ltd.

Packaging Specifications

Model	LF-GMR040YSxxxxH-ELS001	
Carton Size	385*285*210mm (L*W*H)	
Quantity	8 pcs/layer; 6 layers/ctn; 48 pcs/ctn	
Weight	0.14 \pm 5% kg/pc; 7.58 \pm 5% kg/ctn	

Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which
have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to
be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.

Lifud Technology Co., Ltd.