

Features

- Flicker free
- High performance
- IP20
- Suitable for Class II light fixtures
- 5-year warranty (please refer to the warranty condition)



Applications

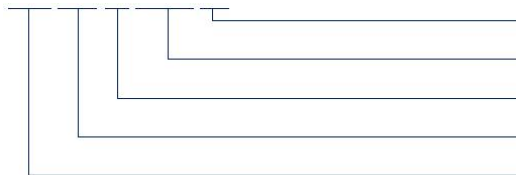
· Commercial lighting · indoor office lighting · decorative lighting · residential lighting

Descriptions

LF-GIF030YSxxxxH is a 30W isolated constant current LED driver. Its input voltage ranges from 220 to 240Vac; output voltage from 33 to 40V and output current from 550 to 750mA. It is suitable for Class II light fixtures, including panel light, down light, spot light, etc.

Product Model

LF - GIF 030 YS xxxx H



- H: input voltage: 220-240Vac
- xxxx: output current (e.g. 0750: 750mA)
- Y: complies with certifications; S: serial number
- 030: output power: 30W
- G: isolated design; IF: indoor flicker-free LED driver

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■ Electrical Characteristics

Model		LF-GIF030YSxxxxH				
Output	Output Voltage	33-40V				
	Output Current	550mA	600mA	650mA	700mA	750mA
	Flicker Index (Modulation Depth)	According to IEEE 1789-2015 standard				
	CIE SVM	≤0.4				
	IEC-Pst	≤1				
	Current Tolerance	± 5%				
	Temperature Drift	± 10%				
	Startup Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	Input Frequency	50/60Hz				
	Input Current	0.2A max.				
	PF	≥0.9				
	THD	≤20%				
	Efficiency	≥86%	≥86.5%		≥87%	
	Inrush Current	≤24A&144uS				
	Loading Quantity on Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	25	41	40	68
	Leakage Current	≤0.7mA				
	Standby Power Consumption	≤0.5W				
Protection	Open Circuit	<55V				
	Short Circuit	Hiccup mode (auto-recovery)				
	Overload	If the maximum load is exceeded by a defined internal limit, the LED driver turns off the LED output. The driver will recover automatically once the overload is eliminated.				
Environment Descriptions	Operating Temperature	-30℃ - +45℃				
	Operating Humidity	20-90%RH (no condensation)				
	Storage Temperature/ Humidity	-30℃ - 80℃ (6 months in Class I environment); 10-90%RH (no condensation)				
	Atmospheric Pressure	86-106kPa				

■ Electrical Characteristics

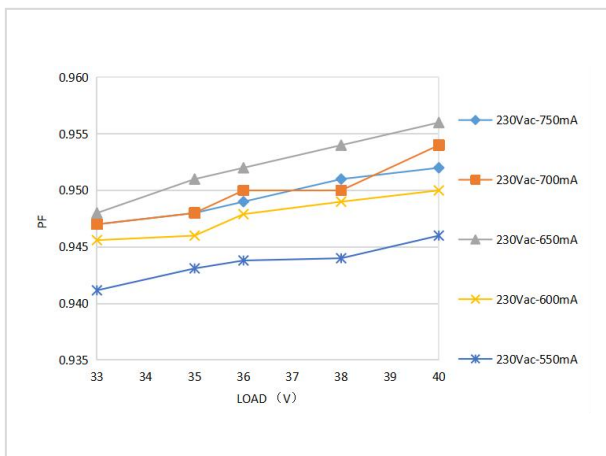
Safety & EMC	Certifications	ENEC, CE, CB, UKCA, SAA, RCM, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384 2016/A1:2009 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 CB: IEC 61347-1:2015, IEC61347-2-3:2014, IEC 61347-2-13:2014/AMD1:2016 UKCA-LVD: EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017, EN 62493:2015 CCC: GB19510.1-2009, GB19510.14-2009FCC:PART 15B SAA: AS 61347.2-13:2018
	EMI	CE-EMC/RCM:EN55015, EN61000-3-2, EN61000-3-3 UKCA-EMC: EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021 CCC: GB/T17743, GB17625.1, GB17625.2
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc≤80°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.	

■ Electrical Characteristics

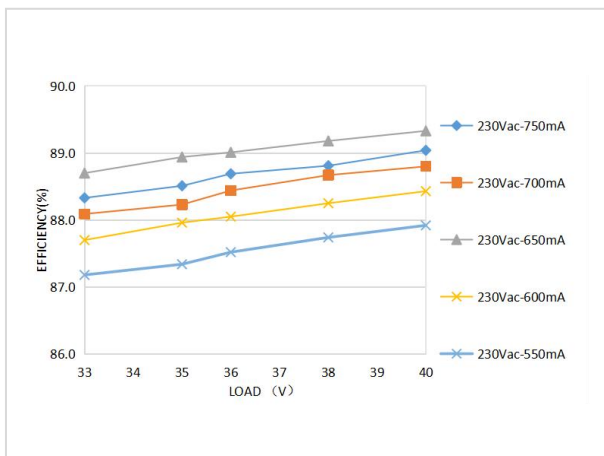
Additional Remarks	<ol style="list-style-type: none"> 1. It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device 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. 3. The number of LED drivers that can be connected to a circuit breaker and the inrush current are tested under the same conditions. 4. 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.
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■ Product Characteristic Curves

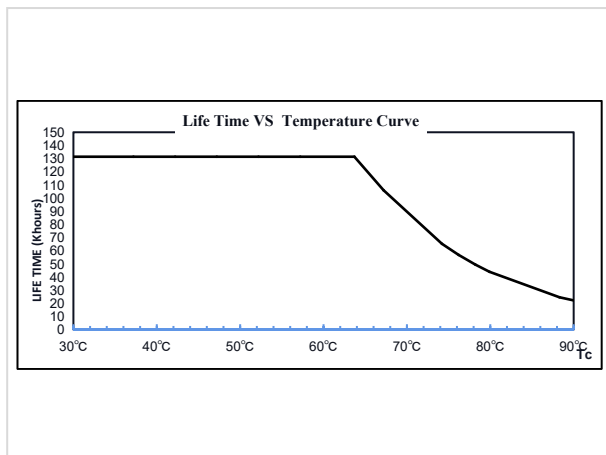
PF Curve



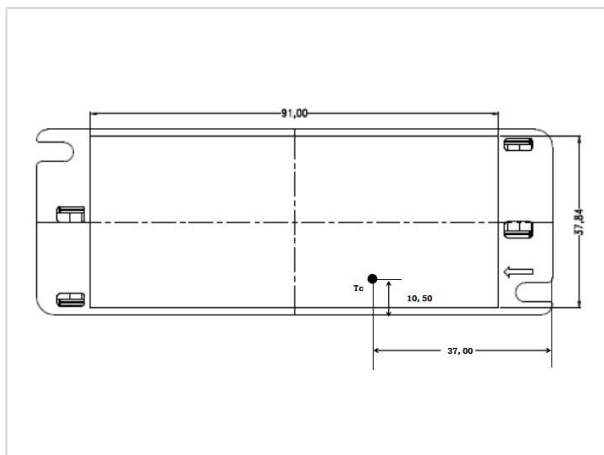
Efficiency Curve



Lifetime Curve



Tc Point Testing Diagram



■ 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 on 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 Technology Co., Ltd. reserves the right to interpret any content of this specification.