Features

- High efficiency up to 87%
- Flicker free
- Suitable for Class II light fixtures
- 5-year warranty (please refer to the warranty condition)

Applications

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

Descriptions

LF-GIF030YCIIxxxxU is a 30W isolated constant current LED driver. Its input voltage ranges from 100-277V, output voltage ranges from 30-40V and output current ranges from 550-750mA. It is suitable for panel lighting.

Product Model

LF - GIF 030 YCII xxxx U

- U: input voltage: 100-277Vac
- xxxx: output current
- Y: conforms to certifications; C: serial number; II: 2rd generation
- 030: output power: 30W
- G: isolated design; IF: indoor flicker free series

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■ Electrical Characteristics

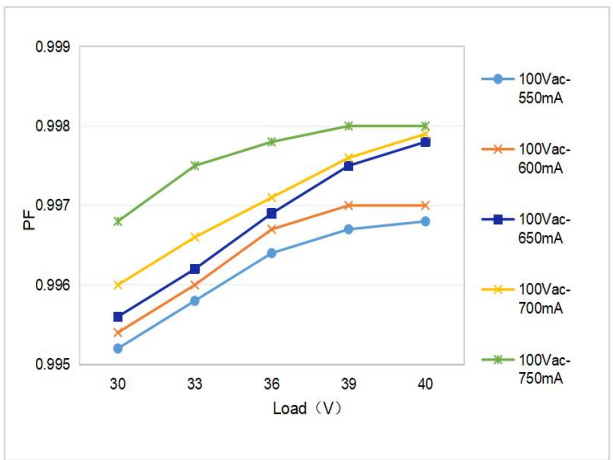
Model		LF-GIF030YCIIxxxxU				
Output	Output Voltage	30-40V				
	Output Current	550mA	600mA	650mA	700mA	750mA
	Flicker	Conforms to the standard of IEEE Std 1789-2015				
	CIE SVM	≤0.4				
	IEC-Pst	≤1.0				
	Current Tolerance	±7%			±5%	
	Temperature Drift	±10%				
Input	AC Input Voltage	100-277Vac				
	DC Input Voltage	140-240Vdc				
	Input Frequency	0/50/60Hz				
	Input Current	0.4A Max@100Vac				
	PF	≥0.95				
	THD	<20%				
	Efficiency	≥85%	≥86%	≥86.5%	≥87%	
	Inrush Current	≤39A&135uS				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	15	24	24	40
	Leakage Current	≤0.7mA				
Protections	Open Circuit	<55V				
	Short Circuit	Hiccup mode (auto-recovery)				
Environment Descriptions	Operating Temperature	-30℃ - +50℃				
	Operating Humidity	20-90%RH (without condensation)				
	Storage Temperature/ Humidity	-40℃ - 80℃ (6 months in Class I environment); 10-90%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				
Safety and EMC	Certifications	ENEC, RCM, CE, CB				
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S				
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc				
	Safety Standards	ENEC:EN 61347-2-13:2014/A1:2017 EN 61347-1:2015/A1:2021 EN IEC62384:2020 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 RCM:AS 61347.2-13:2018				
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2: 2018, EN61000-3-3				
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11				

■ Electrical Characteristics

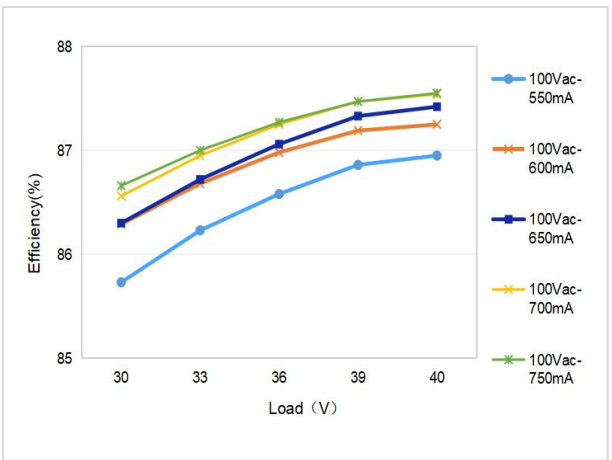
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 yrs (Tc≤90℃)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: 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 client 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 in the whole light fixture, and its EMC 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 performance of LED driver before the whole light fixture is finished. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 4. The PC shade, casing and plug for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 5. The above parameters are tested at the ambient temperature of 25℃, humidity of 50%, full load, input voltage of 230Vac/50Hz without any special remarks.	

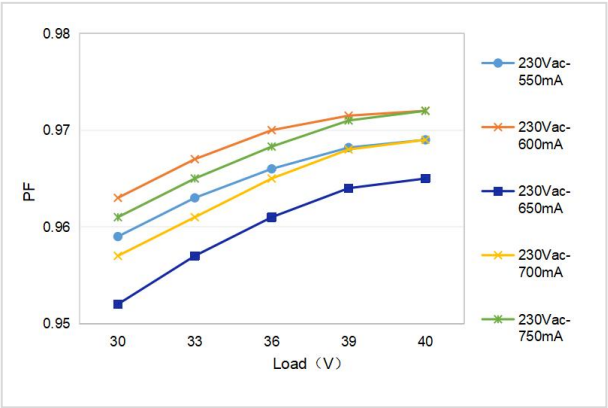
■ Product Characteristic Curves

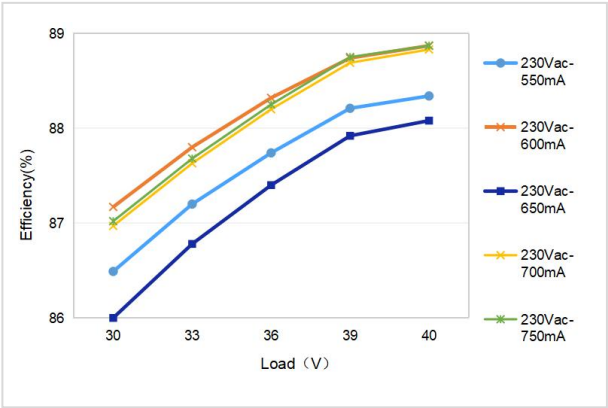
PF Curve

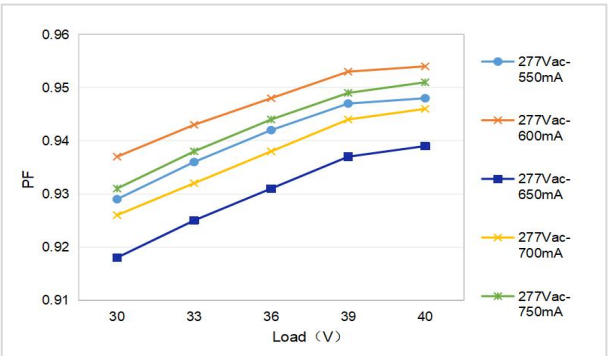


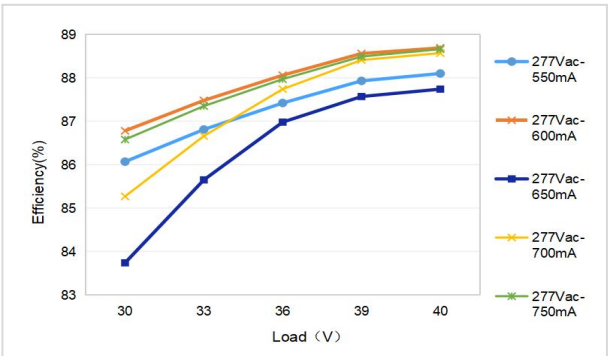
Efficiency Curve



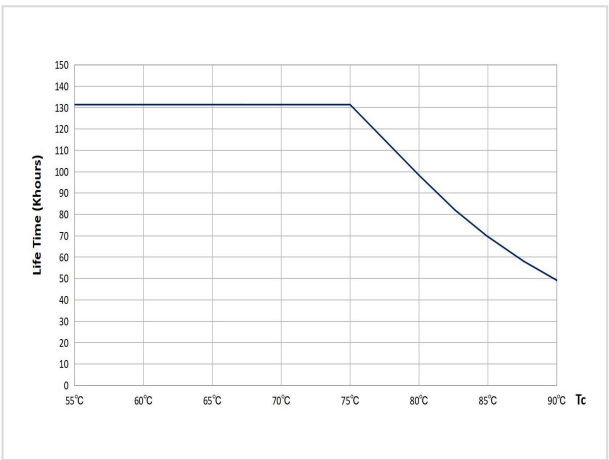




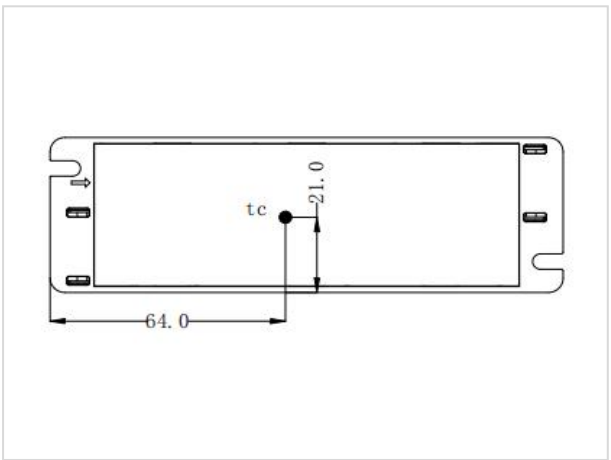




Lifetime Curve



Tc Point Testing Diagram

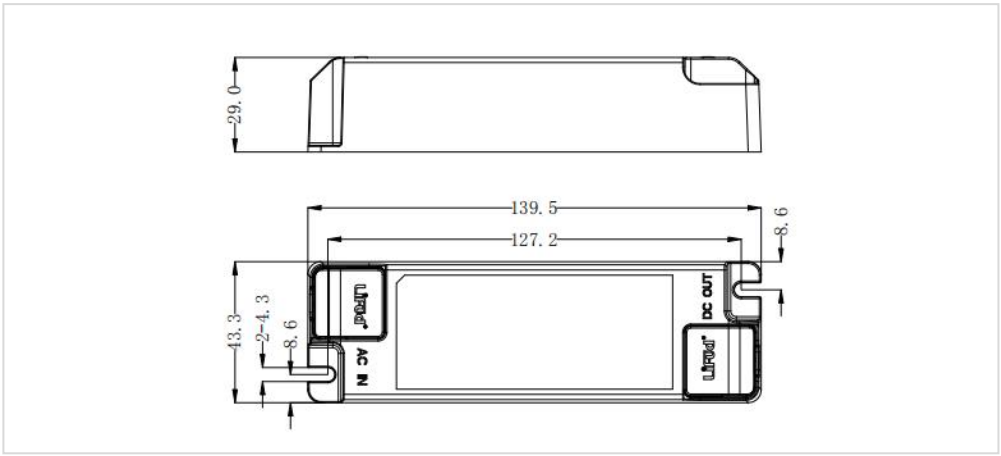


■ Definitions of Product Terminals

INPUT		OUTPUT	
AC-L	Input terminal of AC live wire	LED+	Positive electrode output of LED driver
AC-N	Input terminal of AC neutral wire	LED-	Negative electrode output of LED driver

■ Structures and Dimensions

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes (L)	Diameter of Positioning Hole (D)
LF-GIC030YCIIxxxxU	139.5*43*29.3mm(±0.5mm)	127.5 mm (±0.2mm)	4.3mm



■ Packaging Specifications

Model	LF-GIF030YCIIxxxxU
Carton Size	385×285×210mm (L×W×H)
Quantity	11 pcs/layer；6 layers/ctn；66 pcs/ctn
Weight	0.127 kg/pc; 8.96 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.