

### **Product Description**

LF-GIF028YF is a 28W isolated constant current flicker-free LED driver. It features compact size, built-in design, high efficiency, high PF and Ta 55 $^{\circ}$ C. It is suitable for split-type LED track light (any integrated track light or down light is forbidden) and its ambient temperature shall NOT exceed 55 $^{\circ}$ C. Its output current is adjustable via a built-in DIP switch in 4 shifts, including 550mA, 600mA, 650mA and 700mA.

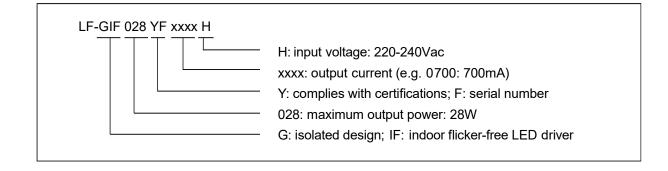
#### Features

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



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

# Product Naming







# **Electrical Characteristics**

Model		LF-GIF028YF							
	Output Voltage	30-42Vdc							
Output	Output Current	550mA	600mA		650m/	650mA		700mA	
	Flicker (Modulation depth)	<0.5%							
	IEC-Pst	≤1							
	CIE SVM	≤0.4							
	Current Tolerance	±5%							
	Temperature Drift	±10%							
	Start-up Time	<0.5S							
	AC Input Voltage	220-240Vac (voltage limit: 200-264Vac)							
	Input Frequency	47Hz-63Hz							
	Input Current	0.18A max.							
	Power Factor	≥0.94	≥0.94	1	≥0.95		≥0.95	<b>i</b>	
	THD	≤20%							
Input	Efficiency	≥90%							
	Inrush Current	≤18A&150uS@230Vac							
	Load Quantity Carried	Circuit Breaker Model		B10	C10	В	16	C16	
	by the Circuit Breaker	Quantity (pcs)	)	30	50	4	18	80	
	Leakage Current	≤0.7mA							
	Standby Power Consumption	<0.5W							
Open CircuitProtectionProtection									
Characteristics	Short Circuit Protection	Hiccup mode (auto-recovery)							

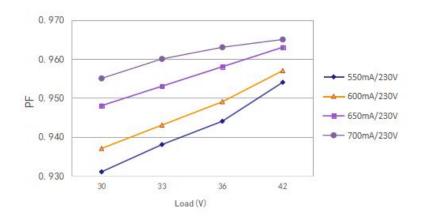
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	Operating Temperature	-30℃ - +55℃ & Tc ≤90℃		
Environment Descriptions	Operating Humidity	20-90%RH (no condensation)		
	Storage	-40 $^\circ\!\!\mathbb{C}$ - +80 $^\circ\!\!\mathbb{C}$ (six months under class I environment);		
	Temperature/Humidity	10-90%RH (no condensation)		
	Atmospheric Pressure	86kPa~106kPa		
	Certifications	TUV-ENEC, CE, CB, RCM, SAA, CCC		
	Withstanding Voltage	I/P-O/P: 3.75kVac/5mA/60S		
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc		
Safety & Electromagnetic Compatibility	Safety Standards EMI	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; RCM: AS 61347.2-13:018 CCC: GB19510.1-2009, GB19510.14-2009 CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 CCC:GB/T17743, GB17625.1, GB17625.2 CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11		
	EMS	CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11		
	IP Rating	IP20		
Others	RoHS	RoHS 2.0 (EU) 2015/863		
	Warranty Condition	5 yrs (Tc<78°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: TH9201B, flicker tester (flicker-free coefficient test) 60N-01, etc.			

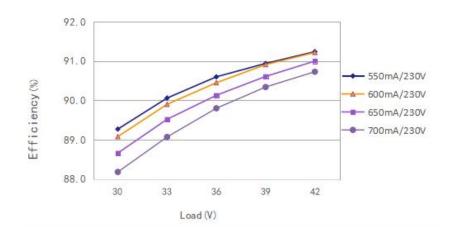
	Lifud	LF-GIF028YF EU-Standard Isolated Flicker-free Track Light LED Driver
	Remarks	<ol> <li>It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices in the power supply circuits of the light fixtures to ensure safety before connecting to electricity.</li> <li>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 should re-confirm the EMC of the whole LED light fixture.</li> <li>The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current test.</li> <li>Do not install the driver inside the integrated track light or down light.</li> </ol>
		5. The ambient temperature (Ta) of the driver shall not exceed 55 $^{\circ}$ C and casing temperature (Ta) not exceed 90 $^{\circ}$ C
	(Tc) not exceed 90 $^\circ\!\!\mathbb{C}.$ 6. Unless otherwise stated, the parameters above are test results under these conditions:	
		ambient temperature 25 $^\circ$ C, humidity 50%, input voltage 230Vac/50Hz and 100% load.

## **Characteristic Curves**

### ■ PF Curve

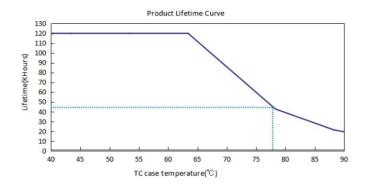


## Efficiency Curve





#### Lifetime Curve



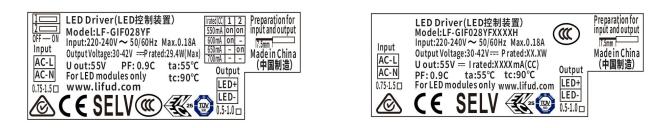
## **Definitions of Terminals**

#### INPUT

OUTPUT

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

#### Labels



Built-in DIP switch version

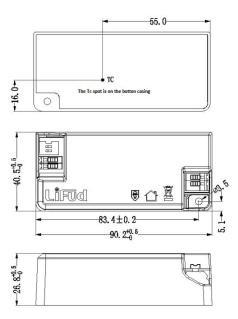
No DIP switch version

# Adjustable Current Shift Table (via DIP switch)

Irated (CC)	1	2
550mA	ON	ON
600mA	ON	—
650mA	—	ON
700mA		—



# Structure & Dimensions (unit: mm)



# **Packaging Specifications**

Model	LF-GIF028YF
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	17 pcs/layer; 7 layers/ctn; 119 pcs/ctn
Weights	80±5 g/pc; 11±0.6 kg/ctn

# Transportation & Storage

Transportation

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- 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.