

# LF-GIF020YSxxxxH

GIF\*YS SELV Flicker Free | Constant Current - Non Dimmable



### **Product family features**

- Low THD<20% @full load
- Rated supply range: 220-240 Vac
- Ta range: -30 +45 °C
- Ripple current<5%</p>
- 5 years guarantee



#### **Product family benefits**

- Compact size, independent use, and high power factor
- Flicker free
- SELV output

#### **Typical applications**

- For panel light
- For office, commercial, decorative lighting

### **Product parameters**

- Output current 400/450/500/550mA
- Output power 10-20.9W
- Input voltage 198-264Vac

- Output voltage 25-42Vdc
- Efficiency 87%

## **Electrical data**

Input data	
Nominal input voltage	220 240 V
Input voltage AC	198 264 V
Mains frequency	0/50/60 Hz
Input voltage DC	220 240V <sup>1)</sup>
Power factor	$\geq 0.95^{2)}$
Efficiency	$\geq$ 87% <sup>3)</sup>
THD	<20%
Input current	0.15A Max
Inrush current	22A <sup>4</sup> )
Loading number on circuit breaker 10 A (B)	36
Loading number on circuit breaker 10 A (C)	60
Loading number on circuit breaker 16 A (B)	58
Loading number on circuit breaker 16 A (C)	97
Protective conductor current	≤0.7mA
Output data	
Nominal output voltage	25 42V <sup>5)</sup>
Nominal output current	400/450/500/550mA
Maximum output power	20.9W
Nominal output power	10 20.9W
Output ripple current (100 Hz)	<5 %
Flicker	According to IEEE Std 1789-2015
CIE SVM	≤0.4
IEC-Pst	≤1
Current tolerance	±5% <sup>6)</sup>
Temperature tolerance	±10%
Start-up time	<0.5\$
Safety	
Withstanding voltage	I/P-O/P: 3.75kV&5mA&60S
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	-
Insulation resistance	I/P-O/P: >100MΩ@500Vdc
Guarantee	5 years <sup>7)</sup>
<ol> <li>DC input is only for emergency with the limited</li> <li>@230Vac full load</li> <li>@230Vac full load</li> </ol>	d input voltage: 180-264V

a) @230Vac full load
 a) @230Vac full load

4) t =150µs

5) The relationship between output voltage and current refers to the operating window

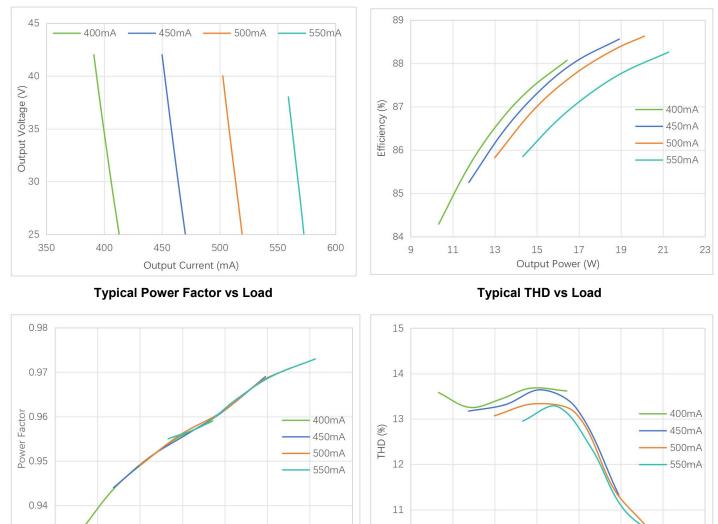
6) ±5%@450mA/500mA/550mA; ±7%@400mA

7) **5 years@Tc≦75**°C

# Characteristic diagram

#### **Operating Window**



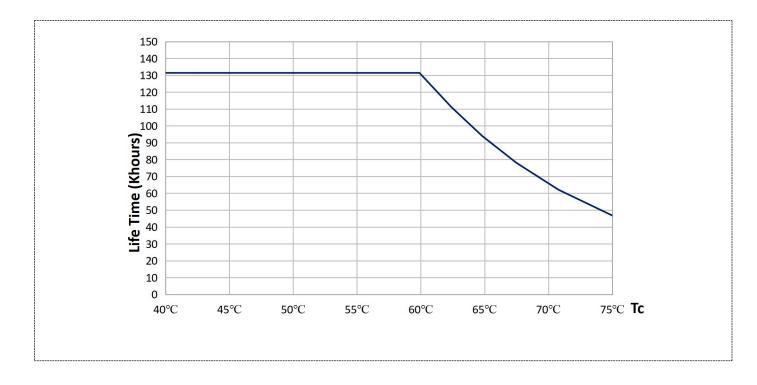


Output Power (W)

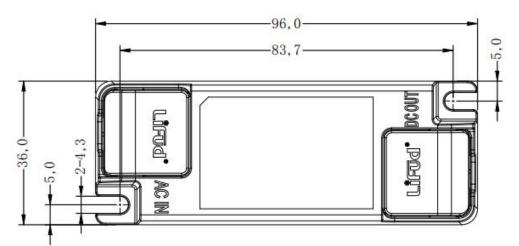
0.93

Output Power (W)

# Lifespan



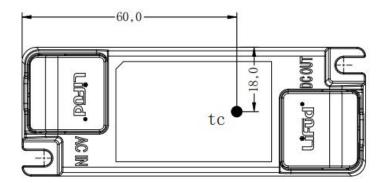
# Dimensions



Mounting hole spacing, length	83.7mm
Positioning hole diameter	4.3mm
Product weight	60 g
Cable cross-section, input side	0.75 1.5 mm <sup>2</sup>
Cable cross-section, output side	0.5 1.5 mm <sup>2</sup>
Wire preparation length, input side	7 8mm
Wire preparation length, output side	7 8mm
Wire outside diameter, input side	Max: 7.0mm Min: 3.0mm
Wire outside diameter, output side	Max: 7.0mm Min: 3.0mm
Length	96.0mm

Width	36.0mm	
Height	24.0mm	
Colors & materials		
Casing material	PC	
Casing color	White	
Temperature & operating conditions		
Ambient temperature range-30 +45°C		
Maximum temperature at tc test point	75°C	
Temperature range at storage	-30 +85 $^\circ\!\!\!\!^\circ \mathrm{C}$ (6 months in Class I environment)	
Humidity range at storage	10-90%RH (no condensation)	
Humidity during operation	20-90%RH	
RoHS	RoHS 2.0 (EU) 2015/863	

# Tc test point



Note: The picture is a front view, and the Tc point is on the front of the product.

# Product terminal

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

### Capabilities

Dimmable	-
Overheating protection	-
Overload protection	Exceeding internal limits triggers LED driver protection; after the overload is eliminated, it automatically resumes normal operation.
Short circuit protection	Automatic reversible
No load protection	<55V
Suitable for fixtures with prot. class	II

Control interface	-
Output interface	1 channel
Programming	
Programming device	-
DALI control software	-
APP	
Certificates & standards	
Approval marks – approval	CCC, ENEC, CB, CE, RCM
Standards	GB 19510.1-2009, GB 19510.14-2009, GB 7000.1-2015 IEC/EN 61347-2-13, IEC/EN 61347-1, IEC/EN 62493 IEC/EN 62384 AS 61347.1, AS 61347.2.13
EMC	GB 17625.1-2022, GB/T 17743-2021 EN 55015, EN 61547, EN 61000-3-2,3
Type of protection	IP20

### Logistical data

Product	Packaging unit	Dimensions (L*W*H)	Volume	Gross weight
	(Pieces/Unit)			
LF-GIF020YSxxxxH	161	385mm*285mm*210mm	23.04 dm³	9.35kg±5%

### **Test equipment & condition**

	AC power source: CHROMA6530, digital power meter: CHROMA66205,
Test Equipment	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.

If there are no special remarks, the above parameters are tested at the ambient temperature of 25  $^\circ\!C$ , humidity of 50%, full load and input voltage of 230Vac/50Hz.

### **Additional information**

1. 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.

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 test conditions of the circuit breaker configuration quantity are the same as those of the inrush current.

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.

# **Transportation & storage**

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.

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.

### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release. Lifud Technology Co., Ltd. reserves the right to interpret any contents of this specification.