

LF-GIF050ESxxxxH

GIF*ES SELV | Constant Current - Non Dimmable



Product family features

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











Product family benefits

- High efficiency
- Flicker free
- Long lifetime and high reliability
- SELV output

Typical applications

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

Product parameters

- Output current 1100/1150/1200/1250/1300mA
- Output power 33-50W
- Input voltage 198-264Vac

- Output voltage 30-40Vdc
- Efficiency 91%

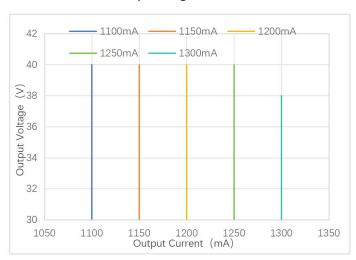
Electrical data

Input data	
Nominal input voltage	220 240V
Input voltage AC	198 264V
Mains frequency	0/50/60Hz
Input voltage DC	220 240V ¹⁾
Power factor	≥0.95
Efficiency	≥90% ²⁾
THD	≤20%
Input current	0.32A Max
Inrush current	33A ³⁾
Loading number on circuit breaker 10 A (B)	16
Loading number on circuit breaker 10 A (C)	27
Loading number on circuit breaker 16 A (B)	26
Loading number on circuit breaker 16 A (C)	44
Protective conductor current	≤0.7mA
Output data	
Nominal output voltage	30 40V ⁴⁾
Nominal output current	1100/1150/1200/1250/1300mA
Maximum output power	50W
Nominal output power	33 50W
Output ripple current (100 Hz)	<5%
Flicker	According to IEEE Std 1789-2015
CIE SVM	≤0.4
IEC-Pst	≤1
Current tolerance	±5%
Temperature tolerance	±10%
Start-up time	<0.5S
Safety	
Withstanding voltage	I/P-PG: 3.75kV&5mA&60S
Surge capability (L-N)	1kV
Surge capability (L/N-Ground)	-
Insulation resistance	I/P-PG: >100MΩ@500Vdc
Guarantee	5 years ⁵⁾
DO: 1: 1.6 20.0	

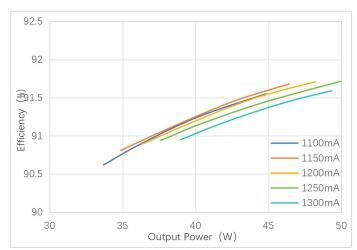
- 1) DC input is only for emergency with the maximum using time of 90 mins (limit input voltage: 180-264V)
- 2) @full load
- 3) $t = 150 \mu s$
- 4) Please refer to the operating window about the relationship between output voltage and output current
- 5) 5 years@Tc≤88°C
- 6) Single harmonic at output voltage above 15V can meet certification standards

Characteristic diagrams

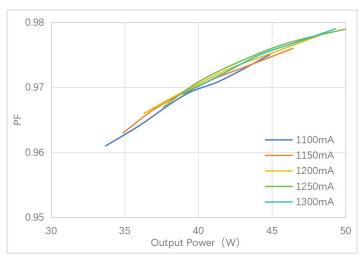
Operating Window



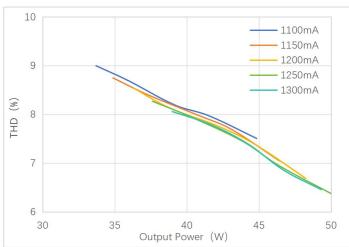
Typical Efficiency vs Load



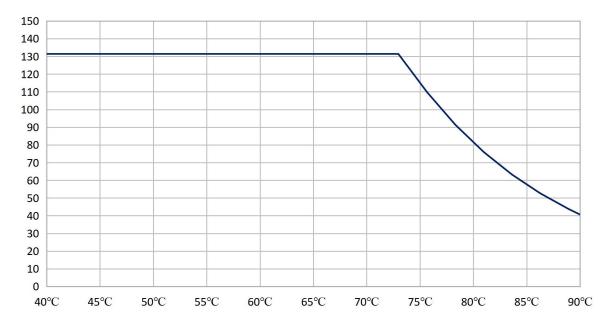
Typical Power Factor vs Load



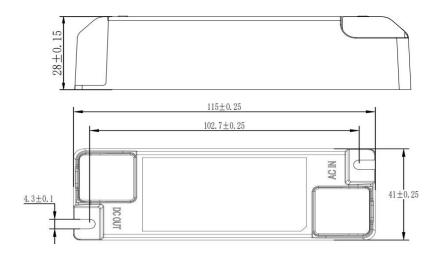
Typical THD vs Load



Lifespan

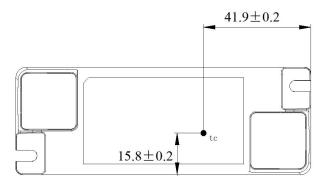


Dimensions (unit: mm)



102.7±0.25mm
100 g±5%
0.75 1.5 mm²
0.5 1.5 mm²
Max: 7.0mm Min: 3.0mm
Max: 7.0mm Min: 3.0mm
7 8mm
7 8mm
115.0±0.25mm
41.0±0.25mm
28.0±0.15mm
PC
White
-30 +45°C
90°C
-30 +80℃ (6 months in Class I environment)
10-95%RH (no condensation)
20-90%RH
RoHS 2.0 (EU) 2015/863

Tc test point (unit: mm)



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	-	
Over-temperature protection	When the front temperature of U2 reaches 137°C, the output current decreases	
Overload protection	-	
Short circuit protection	Automatic reversible	
No-load protection	<55V	
Max. cable length to lamp/LED module	2.0m	
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-GIF050ESxxxxH	108	385mm*285mm*210mm	23.04 dm³	11.84kg±5%

Test equipment & condition

Test equipment	AC power source: CHROMA6530, digital power meter: CHROMA66205, 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° 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 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.

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 on 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 omissions excepted. Always make sure to use the most recent release. Lifud Technology Co., Ltd. reserves the right to interpret any content of this specification.