LF-GIF040ESxxxxH (IP40)

GIF*ES SELV | Constant Current Compact - Non Dimmable

Product family features

— Low THD≤15% @full load

— Rated input range: 220–240Vac

— Ta range: -30 - +45 °C

— Ripple current<5%

— Fixed output current (non-dimmable)

— 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, decorative and retail lighting

Product parameters

— Output current 800/850/900/950/1000/1050mA

— Output power 7.2-40W

— Input voltage 198–264Vac

— Output voltage 9-42Vdc

— Efficiency 90%

Electrical data

Input data

Nominal input voltage	220 ... 240V
Input voltage AC	198 ... 264V
Mains frequency	0/50/60Hz
Input voltage DC	180 ... 264V [1)]
Power factor	0.95
Efficiency	90% [2)]
THD	≤15%
Input current	0.28A Max
Inrush current	30A [3)]
Loading number on circuit breaker 10 A (B)	26
Loading number on circuit breaker 10 A (C)	44
Loading number on circuit breaker 16 A (B)	43
Loading number on circuit breaker 16 A (C)	71
Protective conductor current	≤0.7mA

Output data

Nominal output voltage	9 ... 42V
Nominal output current	800/850/900/950/1000/1050mA[4)]
Default output current	-
Current setting	-
Maximum output power	40W
Nominal output power	7.2 ... 40W
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
Device power loss	/

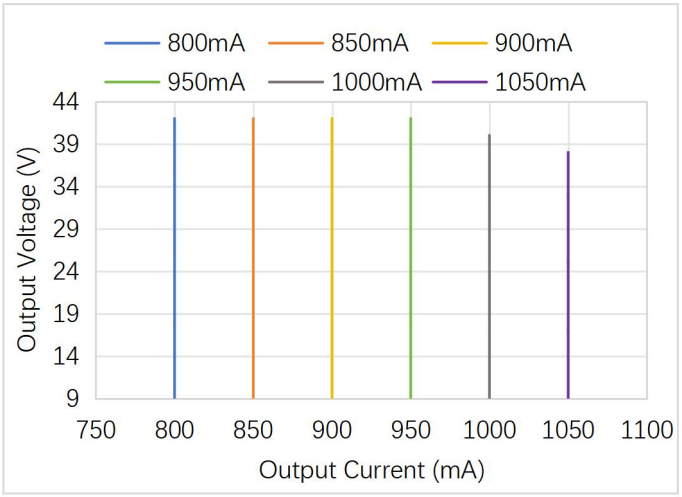
Safety

Withstanding voltage	I/P-O/P: 3.75kV&5mA&60S
Surge capability (L-N)	1.5 kV
Surge capability (L/N-Ground)	-
Insulation Resistance	I/P-O/P: ＞100MΩ@500Vdc
Guarantee	5 years [5)]

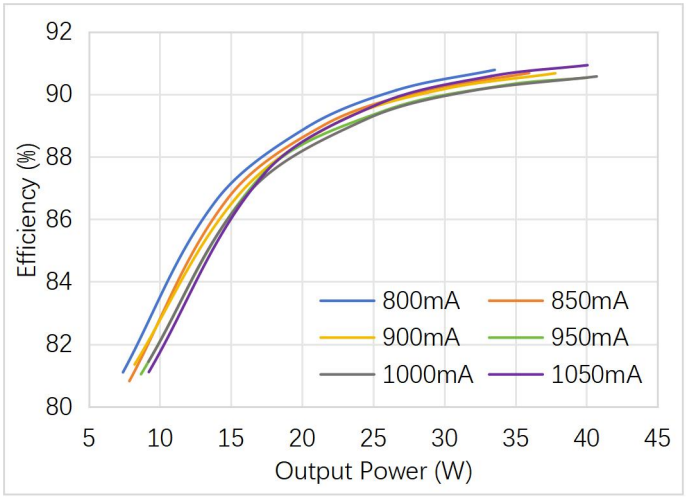
1) DC input is only for emergency with the maximum using time of 90 mins
2) @full load
3) t =150 μs
4) 1000mA@40V, 1050mA@38V
5) 5 years@Tc≤75℃
6) Single harmonic at output voltage above 15V can meet certification standards

Characteristic diagrams

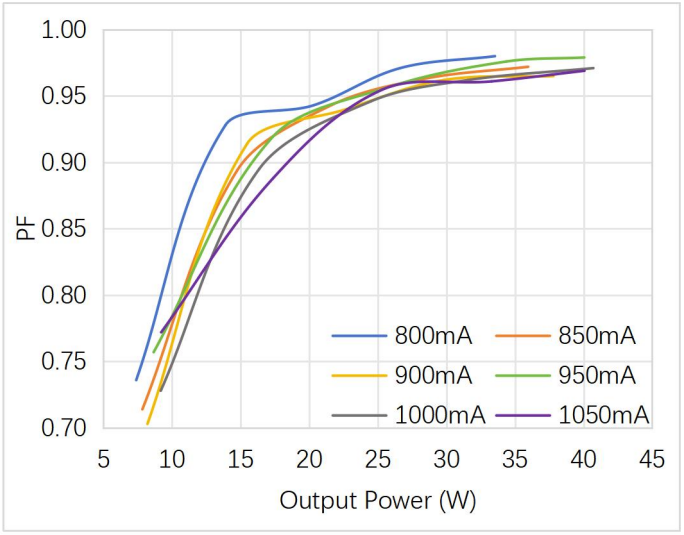
Operating Window



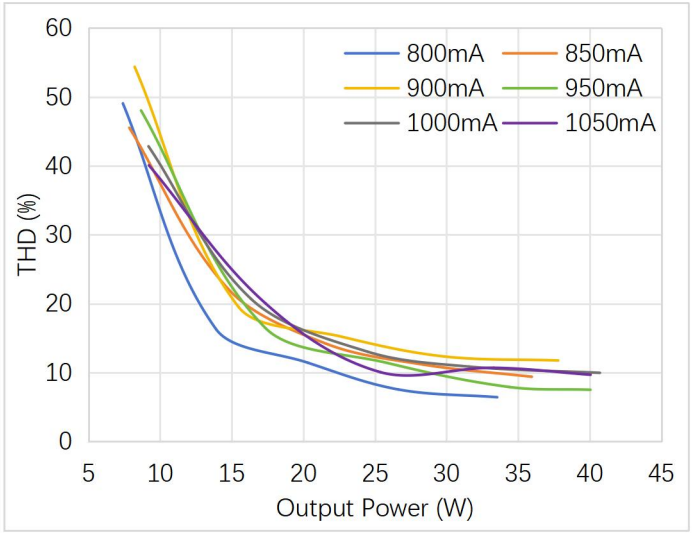
Typical Efficiency vs Load



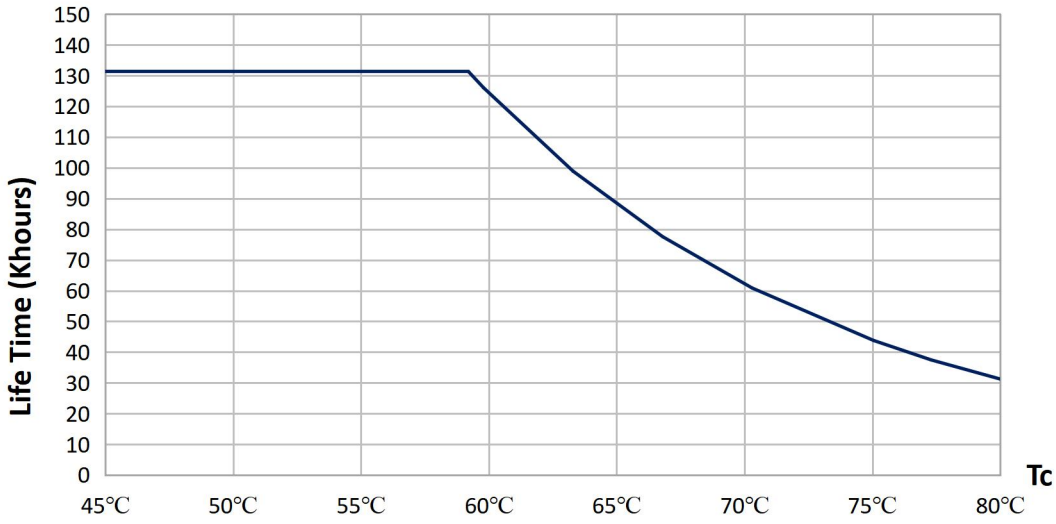
Typical Power Factor vs Load



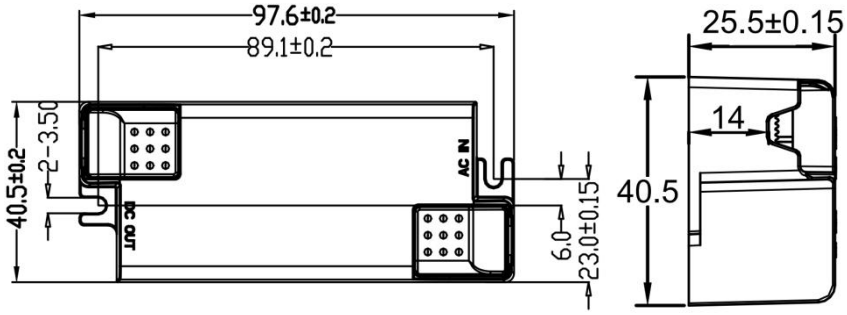
Typical THD vs Load



Lifespan

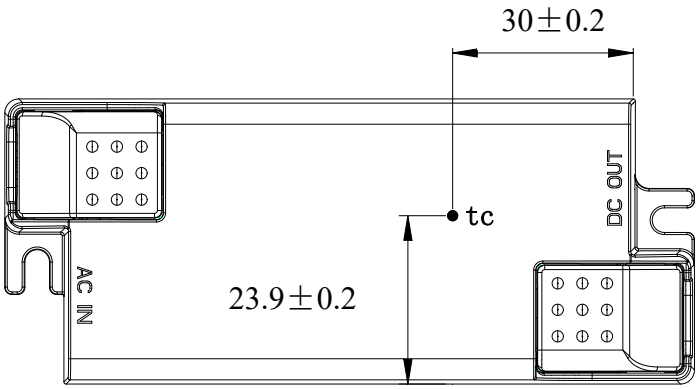


Dimensions



Mounting hole spacing, length	89.1±0.2mm
Product weight	70.00 g±5%
Cable cross-section, input side	0.75 ... 1.5 mm²
Cable cross-section, output side	0.5 ... 1.5 mm²
Cable outside diameter, input side	Max: 7.0mm Min: 3.0mm
Cable outside diameter, output side	Max: 7.0mm Min: 3.0mm
Wire preparation length, input side	7 ... 8mm
Wire preparation length, output side	7 ... 8mm
Length	97.6±0.2mm
Width	40.5±0.2mm
Height	25.5±0.15mm
Colors & materials	
Casing material	PC
Casing color	White
Temperature & operating conditions	
Ambient temperature range	-30 ... +45°C
Maximum temperature at tc test point	80°C
Temperature range at storage	-30 ... +80℃ (6 months in Class I environment)
Humidity range at storage	10-95%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	-
Over-temperature protection	When the front temperature of U2 reaches 137℃, 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
Standards	GB 19510.1-2009, GB 19510.14-2009, GB 7000.1-2015
EMC	GB 17625.1-2022, GB/T 17743-2021
Type of protection	IP40

Logistical data

Product	Packaging unit (Pieces/Unit)	Dimensions (L*W*H)	Volume	Gross weight
LF-GIF040ESxxxxH (IP40)	140	385mm*285mm*223mm	24.46 dm³	10.4kg±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℃, 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.