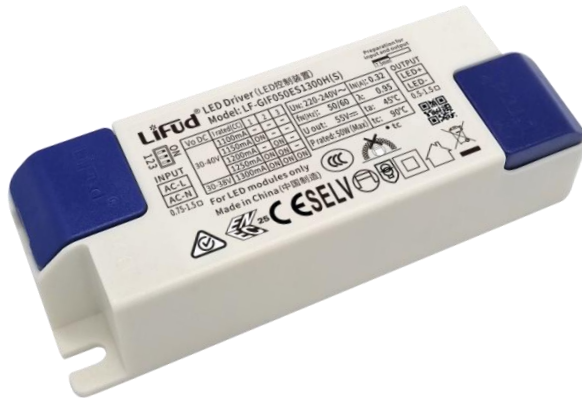


LF-GIF050ES1300H(S)

GIF*ES SELV 1-driver with 5-output current | Constant Current - Non Dimmable



Product family features

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



Product family benefits

- Output current adjustable via DIP switch in 5 shifts
- 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
Default output current	1300mA
Current setting	DIP switch (please see the DIP switch definition)
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

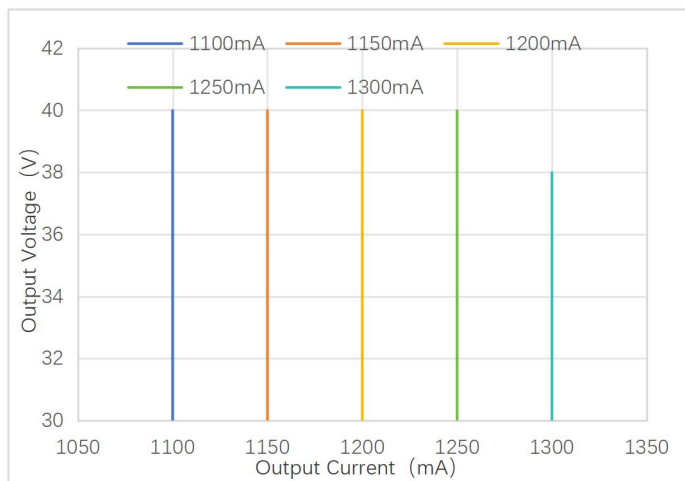
Withstanding voltage	I/P-PG: 3.75kV&5mA&60S
Surge capability (L-N)	1kV
Surge capability (L/N-Ground)	-
Insulation resistance	I/P-PG: > 100MΩ@500Vdc

Guarantee 5 years⁵⁾

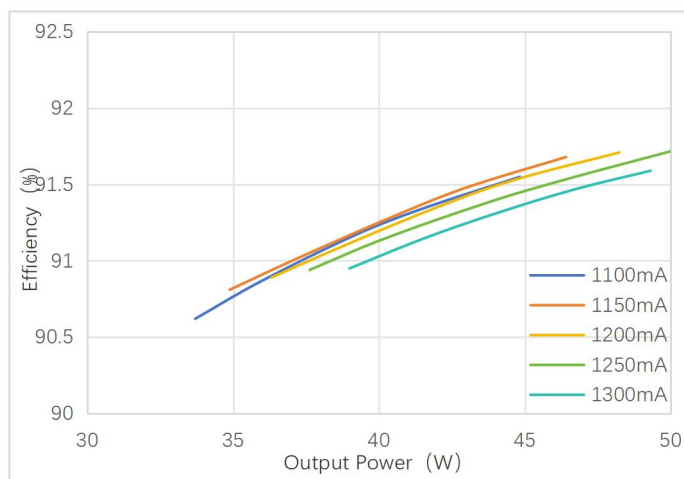
- 1) DC input is only for emergency with the maximum using time of 90 mins (limit input voltage: 180-264V)
- 2) @full load
- 3) t =150 μs
- 4) Please refer to the operating window about the relationship between output voltage and output current
- 5) 5 years@Tc≤88℃
- 6) Single harmonic at output voltage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

Characteristic diagrams

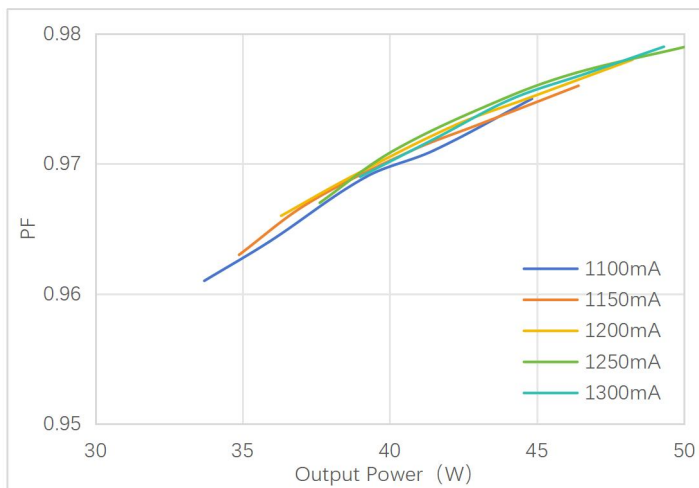
Operating Window



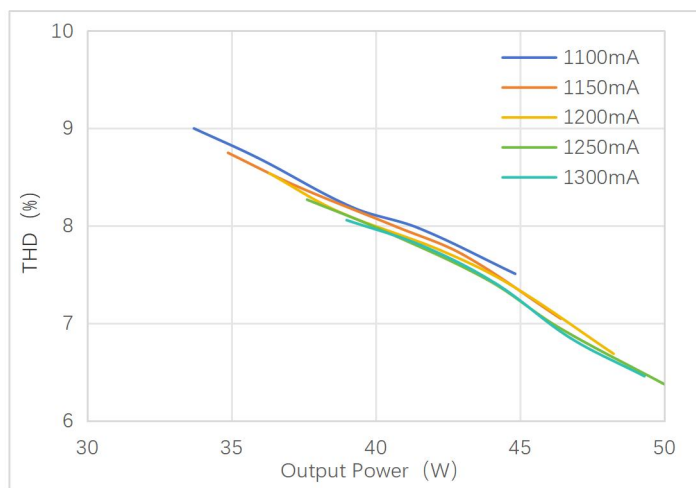
Typical Efficiency vs Load



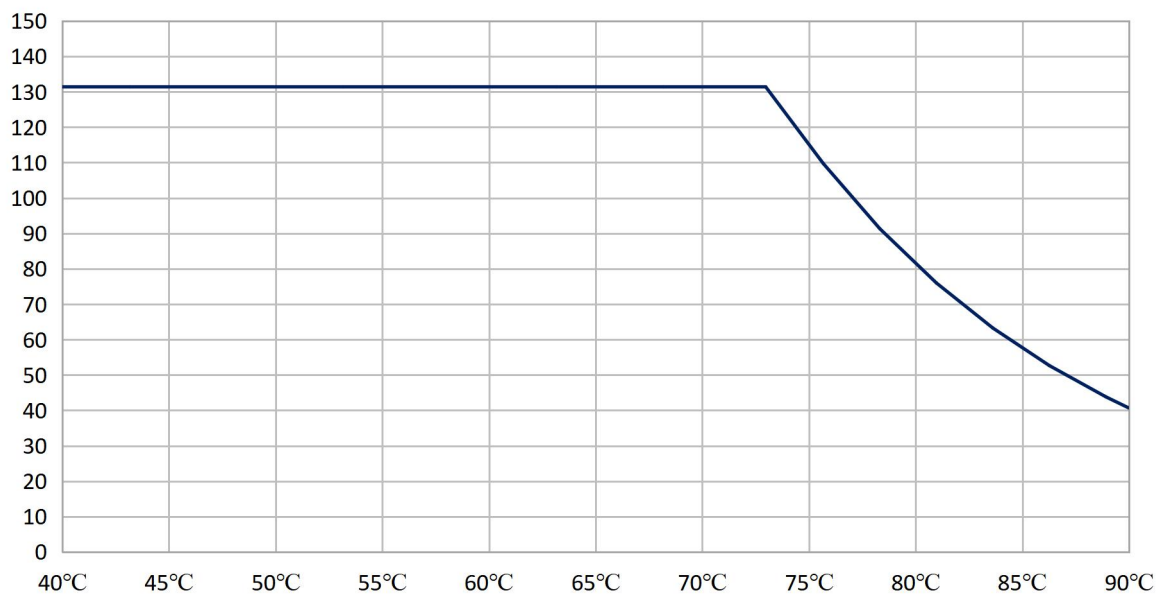
Typical Power Factor vs Load



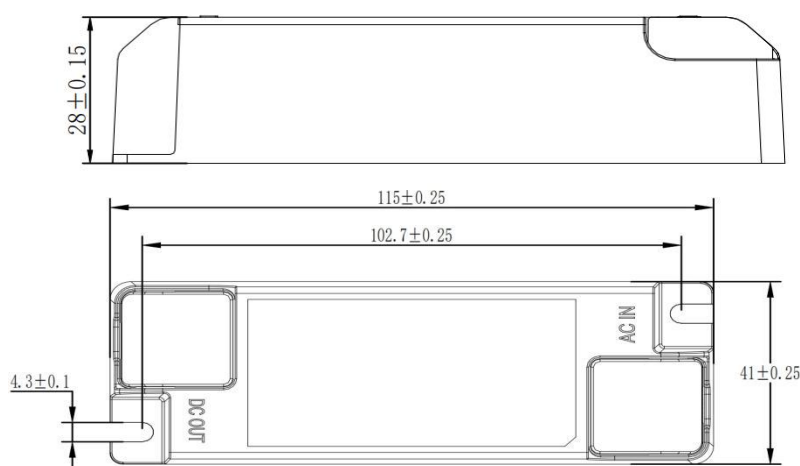
Typical THD vs Load



Lifespan



Dimensions (unit: mm)



Mounting hole spacing, length	102.7 ± 0.25 mm
Product weight	100 g $\pm 5\%$
Cable cross-section, input side	0.75 ... 1.5 mm ²
Cable cross-section, output side	0.5 ... 1.5 mm ²
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	115.0 ± 0.25 mm
Width	41.0 ± 0.25 mm
Height	28.0 ± 0.15 mm

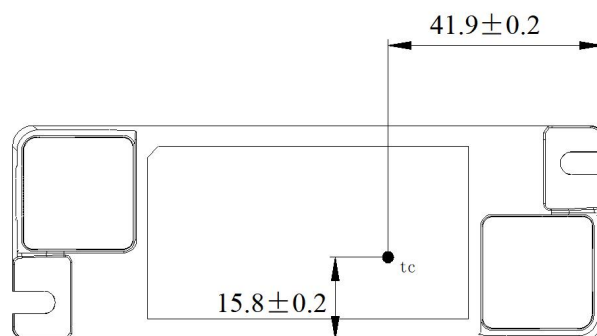
Colors & materials

Casing material	PC
Casing color	White

Temperature & operating conditions

Ambient temperature range	-30 ... +45°C
Maximum temperature at tc test point	90°C
Temperature range at storage	-30 ... +80°C (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 (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

DIP switch definition

Output current	Output voltage	DIP switch 1	DIP switch 2	DIP switch 3
1100mA	30-40Vdc	-	-	-
1150mA	30-40Vdc	ON	-	-
1200mA	30-40Vdc	-	ON	-
1250mA	30-40Vdc	ON	ON	-
*1300mA	30-38Vdc	ON	ON	ON

Note: "-": shift OFF. "*": default current. When adjusting the output current via the DIP switch, please disconnect input AC first so as to use the DIP switch without the input AC connected.

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	-
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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 (Pieces/Unit)	Dimensions (L*W*H)	Volume	Gross weight
LF-GIF050ES1300H(S)	108	385mm*285mm*210mm	23.04 dm ³	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.
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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.