

LF-GIF009YK0700U

009YK SELV | Constant Current Compact - Non Dimmable

Product family features

- Low THD $\leq$ 20% @full load
- Rated input range: 120–277Vac
- Ta range: -30 - +45 °C
- Ripple current $<$ 5%
- 5 years guarantee



Product family benefits

- Compact size
- High cost performance
- SELV output

Typical applications

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

Product parameters

- | | |
|----------------------------|--------------------------|
| — Output current 700mA | — Output voltage 6-11Vdc |
| — Output power 4.2-7.7W | — Efficiency 78% |
| — Input voltage 108–305Vac | |

Electrical data

Input data

Nominal input voltage	120 ... 277V
Input voltage AC	108 ... 305V
Mains frequency	50/60Hz
Displacement factor	≥ 0.7
Power factor	≥ 0.9
Efficiency	$\geq 78\%^{1)}$
THD	/
Input current	0.12A Max
Inrush current	20A ²⁾
Loading number on circuit breaker 10 A (B)	42
Loading number on circuit breaker 10 A (C)	46
Loading number on circuit breaker 16 A (B)	67
Loading number on circuit breaker 16 A (C)	74
Protective conductor current	$\leq 0.7\text{mA}$

Output data

Nominal output voltage	6...11V
Nominal output current	700mA
Maximum output power	7.7W
Nominal output power	4.2 ... 7.7W
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	$\pm 10\%$
Start-up time	$< 0.5\text{S}$

Safety

Withstanding voltage	I/P-O/P: 3.75kV&5mA&60S
Surge capability (L-N)	1kV
Surge capability (L/N-Ground)	-
Insulation resistance	I/P-O/P: $> 100\text{M}\Omega @ 500\text{Vdc}$
Guarantee	5 years ³⁾

1) 78% @230Vac full load 700mA

2) $t = 150\mu\text{s}$

3) 5 years@ $T_c \leq 70^\circ\text{C}$

Characteristic diagrams

Operating Window

Typical Efficiency vs Load

Typical Displacement Factor vs Load

Typical Power Factor vs Load

Lifespan

Dimensions (Unit: mm)

Mounting hole spacing, length	83.7mm
Positioning hole diameter	4.3mm
Product weight	
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: 5.0mm Min: 3.0mm
Cable outside diameter, output side	Max: 5.0mm Min: 3.0mm
Wire preparation length, input side	7...8mm
Wire preparation length, output side	7...8mm
Length	96mm
Width	36mm
Height	24mm

Colors & materials

Casing material	PC
Casing color	White

Temperature & operating conditions

Ambient temperature range	-30 ... +45°C
Maximum temperature at tc test point	70°C
Temperature range at storage	-40 ... +80°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 (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	-
Overload protection	-
Short circuit protection	Automatic reversible
No-load protection	<25V
Suitable for fixtures with prot. class	II
Control interface	-
Output interface	-

Programming

Programming device	-
DALI control software	-
APP	-

Certificates & standards

Approval marks – approval	ENEC, CB, CE, RCM
Standards	GB 19510.1-2009, GB 19510.14-2009 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-GIF009YK0700U	161	385mm*285mm*223mm	24.47 dm ³	8.5kg

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%, maximum output power 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.