LF-GIF028YZ

GIF*YZ SELV 1-driver with 8-output current | Constant Current Compact - Non dimmable

Product family features

— Low THD＜10% @full load

— Rated supply range: 220–240 VAC

— Ta range: -30 - +50 °C

— Ripple current＜5%

— 5 years guarantee

Product family benefits

— Output current adjustable via DIP switch with 8-shift

— Support built-in and independent use; high efficiency

— Comply with ZHAGA standard

— Flicker free; SELV output

— Long lifetime and high reliability

— Suitable for Class I/II light fixture

Typical applications

— For panel light, downlight, spotlight

— For office, commercial, decorative and retail lighting, etc.

Product parameters

— Output current 350/400/450/500/550/600/650/700mA

— Output power 3.15-28W

— 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	≤10%
Input current	0.2A Max
Inrush current	25A [3)]
Loading no. on circuit breaker 10 A (B)	28
Loading no. on circuit breaker 10 A (C)	41
Loading no. on circuit breaker 16 A (B)	46
Loading no. on circuit breaker 16 A (C)	66
Protective conductor current	≤0.7mA

Output data

Nominal output voltage	9 ... 42V[4)]
Nominal output current	350/400/450/500/550/600/650/700mA
Default output current	700mA
Current set	DIP switch (please see the DIP switch definition)
Maximum output power	28W
Nominal output power	3.18 ... 28W
Output ripple current (100 Hz)	＜5%
Flicker	Comply with IEEE Std 1789-2015
CIE SVM	≤0.4
IEC-Pst	≤1
Temperature tolerance	±10%
Starting time	＜0.5S
Output current tolerance	±5%[5)]

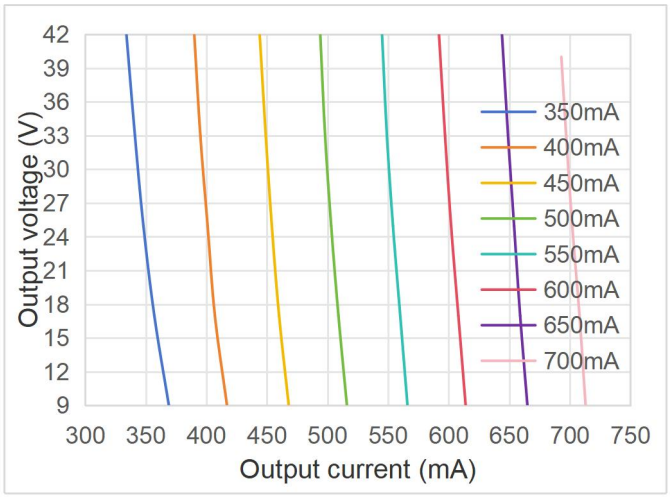
Safety

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: >100MΩ@500VDC
Guarantee	5 years [6)]

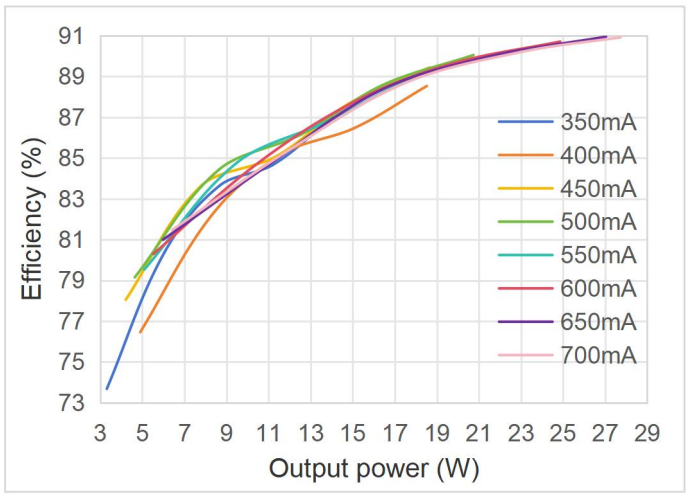
1) DC input is only for emergency with the maximum using time of 90 mins
2) Efficiency≥90℃@600/650/700mA, the maximum power
3) t =200 μs
4) 9-42Vdc@350/400/450/500/550/600/650mA; 9-40Vdc@700mA
5) ±5%@500-700mA; ±7%@400/450mA, 25-42V; ±10%@350mA
6) 5 years@Tc≦70℃
7) The product cannot meet the single harmonic requirements of EN61000-3-2 below 35% load

Characteristic diagram

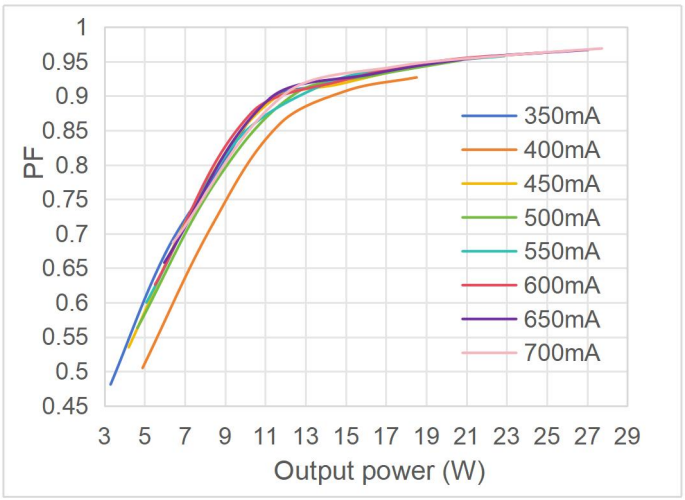
Operating Window



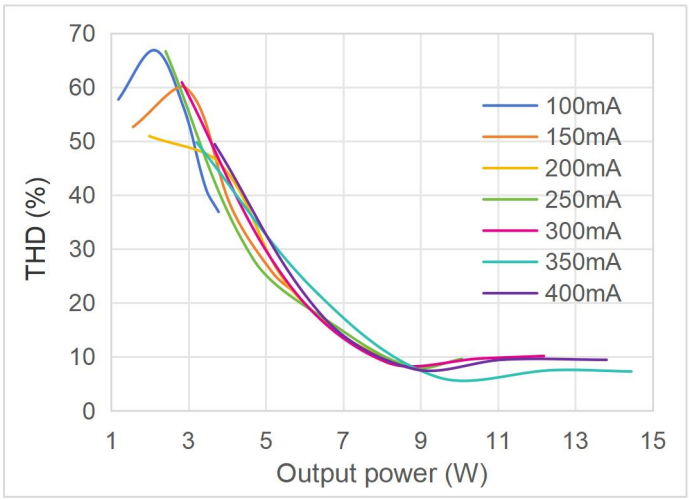
Typical Efficiency vs Load



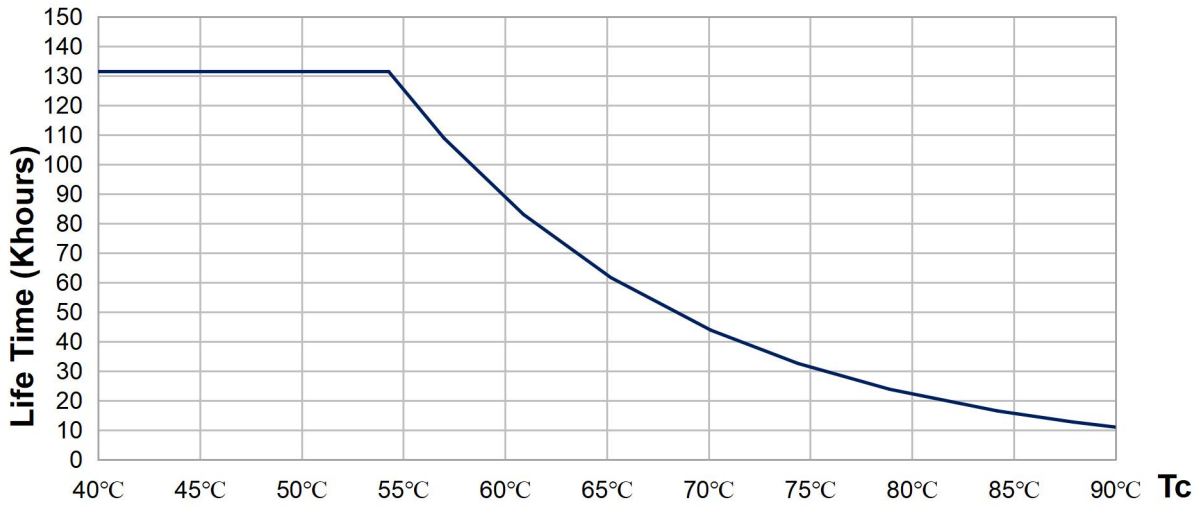
Typical Power Factor vs Load



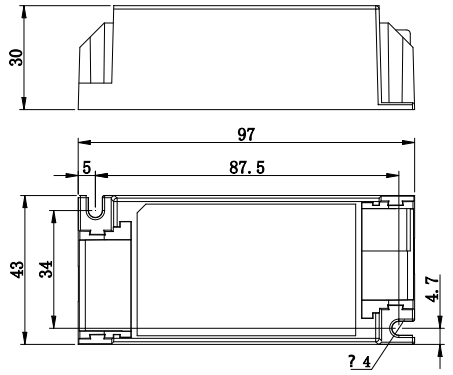
Typical THD vs Load



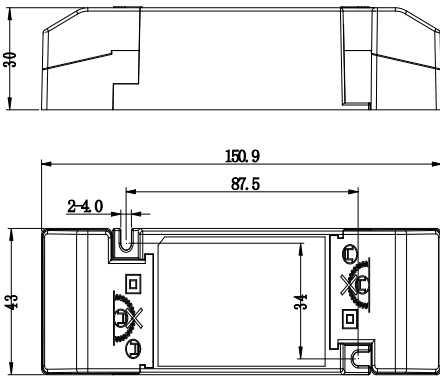
Lifespan



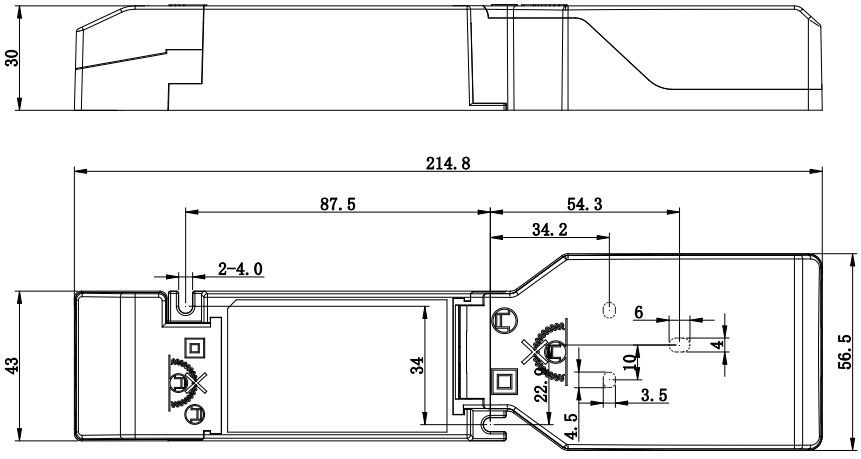
Dimensions



Built-in



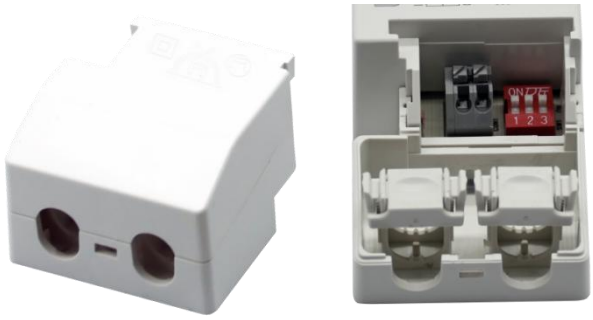
Independent-1



DC AC

Independent-2

Accessories



Short strain-relief

Long strain-relief (Type-A)

Assembly diagram

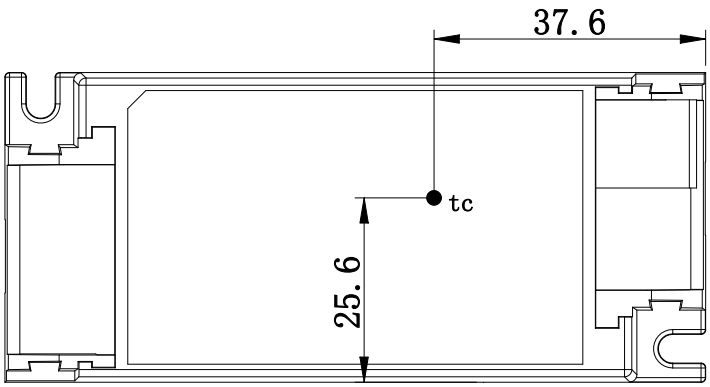
Independent assembly-1

Independent assembly-2

Independent strain-relief assembly methods:
1. Independent type 1 adds a short strain-relief for input and output respectively.
2. Independent type 2 adds a Type A strain-relief for input and a short strain-relief for output. The Type A strain-relief is equipped with input terminals (+/–) twice, which also supports 2.5mm^2 wire diameter.

Mounting hole spacing, length	87.5mm
Mounting hole spacing, width	34.0mm
Mounting hole diameter	4.0mm
Product weight	90.00 g
Cable cross-section, input side	0.5 ... 1.5 mm²
Cable cross-section, output side	0.5 ... 1.5 mm²
Wire preparation length, input side	7 ... 8mm
Wire preparation length, output side	7 ... 8mm
Length	97.0mm
Width	43mm
Height	30mm
Colors & materials	
Casing material	PC
Casing color	White
Temperature & operating conditions	
Ambient temperature range	-30 ... +50°C
Maximum temperature at tc test point	75°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 electrode output of LED driver
AC-N	AC neutral wire input	**LED-**	Negative electrode output of LED driver

DIP switch Terminal

Output current	DIP switch 1	DIP switch 2	DIP switch 3
350mA	-	-	-
400mA	-	-	ON
450mA	-	ON	-
500mA	-	ON	ON
550mA	ON	-	-
600mA	ON	-	ON
650mA	ON	ON	-
*700mA	ON	ON	ON

Note: “-”: shift OFF. “*”: default current. DIP when power on is NOT allowed. Please disconnect the AC power before DIP.

Capabilities

Dimmable	-
Overheating protection	-
Overload protection	-
Short-circuit protection	Automatic reversible
No-load protection	＜55V
Max. cable length to lamp/LED module	-
Suitable for fixtures with prot. class	I/II
Control interface	-
Output interface	1 channel

Programming	
Programming device	-
DALI control software	-
APP	-

Certificates & standards	
Approval marks – approval	ENEC, CB, CE, RCM, SAA, UKCA
Standards	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-GIF028YZ	90	385mm*285mm*210mm	23.04 dm³	9.03kg±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 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.

5. It is prohibited to be built into integrated track lights, integrated downlights, etc.

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.