LF-GIF040YW1050H(S)

GIF*YW SELV Current Adjustable LED Driver | Constant Current - Non Dimmable

Product family features

— Low THD≤20%

— Nominal input voltage: 220-240 Vac

— Ta range: -30 - +45 °C

— Ripple current<5%

— 5 years guarantee

Product family benefits

— High efficiency

— 16-shift output current adjustable via DIP switch

— Long lifetime and high reliability

— Flicker free; isolated

Typical applications

— For panel lights

— For office, commercial, and decorative lighting

Product parameters

— Output current

300/350/400/450/500/550/600/650/700/750/800/850/900/950/1000/1050mA

— Output power 2.7-40W

— Input voltage 198–264Vac

— Output voltage 9-50Vdc

— Efficiency 90%

Electrical data

Input data

Nominal AC input voltage	220 ... 240 V
Input voltage AC	198 ... 264 V
Mains frequency	0/50/60 Hz
DC input voltage	220 ... 240 V [1)]
Power factor	≥0.9 [2)]
Efficiency	89%
THD	≤20%
Input current	0.28A Max
Inrush current	25A [3)]
Loading number on circuit breaker 10 A (B)	
Loading number on circuit breaker 10 A (C)	
Loading number on circuit breaker 16 A (B)	
Loading number on circuit breaker 16 A (C)	
Protective conductor current	≤0.7mA

Output data

Nominal output voltage	9 ... 50V
Nominal output current	300/350/400/450/500/550/600/650/700/750/800/850/900/950/1000/1050mA [4)]
Default output current	1050mA
Current setting	DIP Switch (see the DIP switch definition for the corresponding current)
Maximum output power	40W
Nominal output power	2.7...40W
Output ripple current (100 Hz)	<5%
Flicker	According to IEEE Std 1789-2015
CIE SVM	≤0.4
IEC-Pst	≤1
Output current tolerance	±5% [5)]
Temperature tolerance	±10%
Start-up time	<0.5S

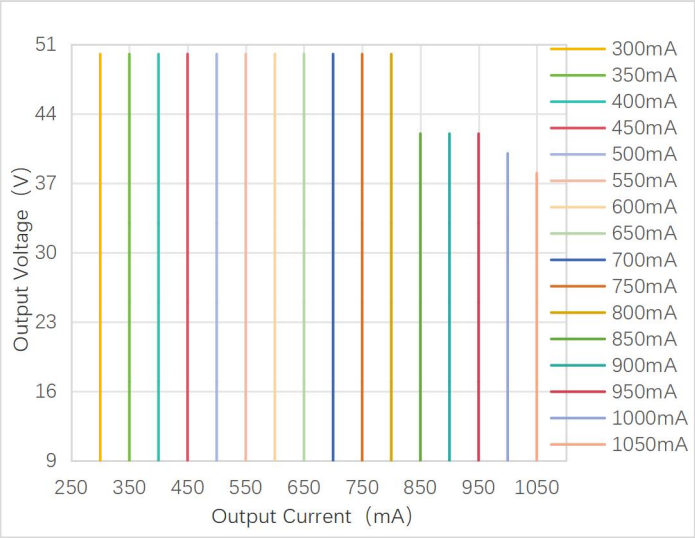
Safety

Withstanding voltage	I/P-O/P: 3.75kV&5mA&60S
Surge capability (L-N)	2kV
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, limited input voltage: 180-264V
2) 0.95@800mA-1050mA; 0.9@300mA-800mA
3) t =160 μs
4) Refer to the operating window for the relationship between output voltage and current (9-38V@1050mA; 9-40V@1000mA; 9-42V@850-950mA; 9-50V@300-800mA)
5) 8% at below 500mA; 6% at 500-800mA; 5% at 850-1050mA
6) 5 years@Tc≤ ℃ (Acc. to the actual measurement of DVT)

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	114.5±0.20mm
Product weight	g
Cable cross-section, input side	0.75 ... 1.5 mm²
Cable cross-section, output side	0.5 ... 1.5 mm²
Wire outside diameter, input side	3 ... 6mm
Wire outside diameter, output side	3 ... 6mm
Wire preparation length, input side	7 ... 8mm
Wire preparation length, output side	7 ... 8mm
Length	125.0±0.20mm
Width	43.2±0.20mm
Height	21.5±0.20mm
Colors & materials	
Casing material	PC
Casing color	White
Temperature & operating conditions	
Ambient temperature range	-30 ... +45°C
Maximum temperature at tc test point	°C
Temperature range at storage	-30 ... +80℃ (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

DIP switch definition

Output current	Output voltage	DIP switch 1	DIP switch 2	DIP switch 3	DIP switch 4
300mA	9-50Vdc	-	-	-	-
350mA	9-50Vdc	-	-	-	ON
400mA	9-50Vdc	-	-	ON	-
450mA	9-50Vdc	-	-	ON	ON
500mA	9-50Vdc	-	ON	-	-
550mA	9-50Vdc	-	ON	-	ON
600mA	9-50Vdc	-	ON	ON	-
650mA	9-50Vdc	-	ON	ON	ON
700mA	9-50Vdc	ON	-	-	-
750mA	9-50Vdc	ON	-	-	ON
800mA	9-50Vdc	ON	-	ON	-
850mA	9-42Vdc	ON	-	ON	ON
900mA	9-42Vdc	ON	ON	-	-
950mA	9-42Vdc	ON	ON	-	ON
1000mA	9-40Vdc	ON	ON	ON	-
* 1050mA	9-38Vdc	ON	ON	ON	ON

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

Capabilities

Dimmable	-
Over-temperature protection	-
Overload protection	-
Short circuit protection	Automatic reversible
No-load protection	<59V
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	ENEC, CB, CE, RCM, EL
Standards	IEC/EN 61347-2-13, IEC/EN 61347-1, IEC/EN 62493 IEC/EN 62384 AS 61347.1, AS 61347.2.13
EMC	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-GIF040YW1050H(S)	56	310mm*285mm*155mm	dm^3	kg±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.