

Features

- · Flicker free
- · Compact size, high PF, external driver
- IP20
- · Suitable for Class II light fixtures
- 5-year warranty (please refer to the warranty condition)





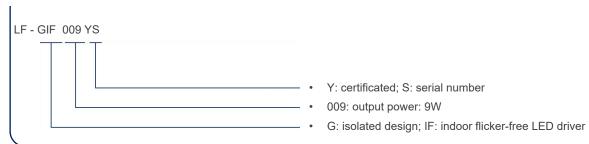
Applications

· Indoor office lighting · decorative lighting · residential lighting

Descriptions

LF-GIF009YS is a 9W isolated flicker-free LED driver. Its rated input voltage ranges from 220 to 240Vac and its output current is adjustable from 100 to 250mA via DIP switch with every 50mA as a step.

Product Model



Lifud Technology Co., Ltd.

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Model		LF-GIF009YS					
	Output Voltage		25-42Vdc				
	0.1.101	Adjustable via DIP swtitch					
	Output Current	100mA	150m	A 2	00mA	250mA	
	Ripple Current (100Hz)	<5%					
Output	Flicker	According to IEEE 1789-2015 standard					
Output	CIE SVM	≤0.4	≤0.4				
	IEC-Pst	≤1.0					
	Current Tolerance	±12%	±8%		±	7%	
	Temperature Drift	±10%	-		•		
	Start-up Time	<0.5S					
	Rated AC Input Voltage	220-240Vac					
	Input Voltage Range	198-264Vac					
	DC Input Voltage	180-264Vdc ^①					
	Input Frequency	0/50/60Hz					
	Input Current	0.07A max.					
	PF	≥0.95 ^②					
Input	THD	<20%					
	Efficiency	≥84% ^③					
	Inrush Current	≤20A ^④					
	Loading Quantity on	Model	B10	C10	B16	C16	
	Circuit Breaker	Quantity (pcs)	47	55	75	88	
	Leakage Current	≤0.7mA					
	Standby Power Consumption	≤0.5W					
	Open Circuit	≤55Vdc					
Protections	Short Circuit	Hiccup mode (self-recovery)					
	Overload	If the defined internal limit is exceeded, the LED driver will turn off the LED output. The driver will recover automatically once the overload is eliminated.					
	Operating Temperature	-30°C - +50°C					
	Operating Humidity	10-95%RH (no condensation)					
Environment Descriptions	Storage Temperature/ Humidity	-30°C - 85°C (6 months in Class I environment); 0-95%RH (no condensation)					
	Atmospheric Pressure	86-106kPa					

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Surge	L-N	1kV
	Certifications	ENEC, CE, CB, UKCA, RCM, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
Safety & EMC	Safety Standards	CB: IEC 61347-1:2015, IEC61347-2-3:2014, IEC 61347-2-13:2014/AMD1:2016 CCC: GB19510.1-2009, GB19510.14-2009 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384:2020 RCM:AS 61347.2-13:2018 UKCA-LVD: EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017, EN 62493:2015
	ЕМІ	CCC: GB/T17743, GB17625.1, GB17625.2 CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 UKCA-EMC: EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC 61000- 3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021
EMS		CE-EMC/RCM: EN61000-4-2,3,4,5,6,11 CCC: GB/T17626.2,3,4,5,6,11
	IP Rating	IP20
Other	RoHS	RoHS 2.0 (EU) 2015/863
Parameters	Tc Max	75°C
	Warranty	5 years®



Model		LF-GIF009YSxxxxH					
Output Voltage		25-42Vdc					
	Output Current	135mA	160mA	180mA	200mA	220mA	250mA
	Ripple Current (100Hz)	<5%					
	Flicker	According to IEEE 1789-2015 standard					
Output	CIE SVM	≤0.4					
	IEC-Pst	≤1.0					
	Current Tolerance	±8%				±5%	
	Temperature Drift	$\pm 10\%$					
	Start-up Time	<0.5S					
	Rated AC Input Voltage	220-240Vac					
	Input Voltage Range	198-264Vac					
	DC Input Voltage	220-240Vdc®					
	Input Frequency	0/50/60Hz					
	Input Current	0.07A max.					
	PF	≥0.95⑦					
Input	THD	<20%					
	Efficiency	≥84%®					
	Inrush Current	≤20A [®]					
	Loading Quantity on	Model	B10	C10	B16	6	C16
	Circuit Breaker	Quantity (pcs)	47	55	75		88
	Leakage Current	≤0.7mA					
	Standby Power Consumption	≤0.5W					
	Open Circuit	≤55Vdc					
Protections	Short Circuit	Hiccup mode (self-recovery)					
Trotections	Overload	If the defined internal limit is exceeded, the LED driver will turn off the LED output. The driver will recover automatically once the overload is eliminated.					
	Operating Temperature	-30°C - +50°C					
Foods	Operating Humidity	10-95%RH (no condensation)					
Environment Descriptions	Storage Temperature/ Humidity	-30°C - 85°C (6 months in Class I environment); 0-95%RH (no condensation)					
	Atmospheric Pressure	86-106kPa					



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	Certifications	ENEC, CE, CB, UKCA, RCM, CCC	
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S	
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	EMS	CE-EMC/RCM: EN61000-4-2,3,4,5,6,11 CCC: GB/T17626.2,3,4,5,6,11	
	IP Rating	IP20	
Other	RoHS	RoHS 2.0 (EU) 2015/863	
Parameters	Tc Max	75°C	
	Warranty	5 years®	



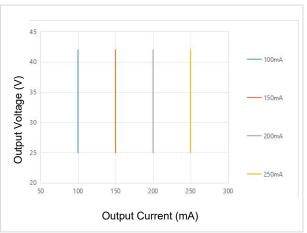
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.
Test Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz.
Remarks	 It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 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. The number of LED drivers that can be connected to a circuit breaker and the inrush current are tested under the same conditions. 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.

Notice:

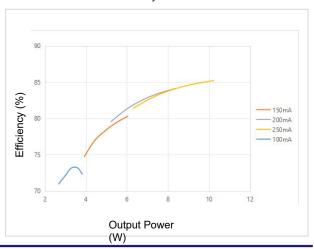
- ①: DC input is only for emergency with the maximum time of 90mins.
- ②: When the output voltage is 42V and the output current is 250mA, the PF is ≥0.95.
- ③: When the output voltage is 42V and the output current is 250mA, the efficiency is ≥84%.
- 4): @150uS
- ⑤: 5 years @Tc≤75°C
- ⑥: DC input is only for emergency with the maximum time of 90mins.
- ⑦: When the output voltage is 42V and the output current is 250mA, the PF is ≥0.95.
- ③: When the output voltage is 42V and the output current is 250mA, the efficiency is ≥84%.
- 9: @ 150uS
- (iii): 5 years @Tc≤75°C

Product Characteristics Curves DIP version

Working Window Curve



Efficiency Curve



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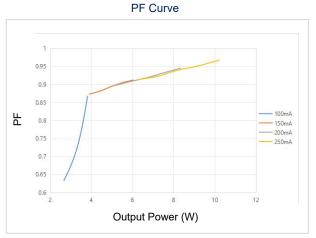
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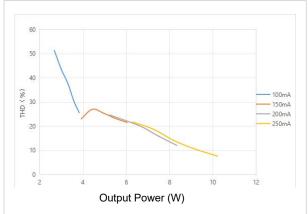
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■ Product Characteristic Curves

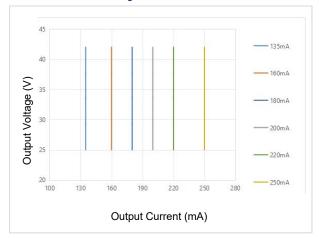


THD Curve

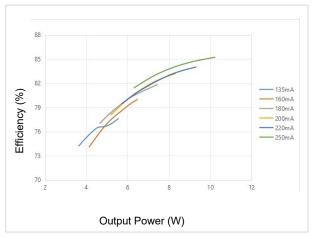


Fixed current version

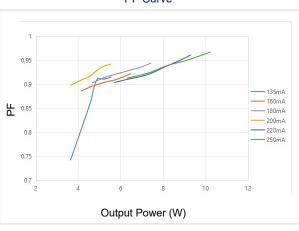
Working Window Curve



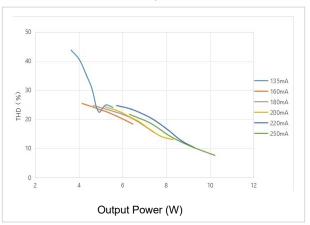
Efficiency Curve



PF Curve



THD Curve



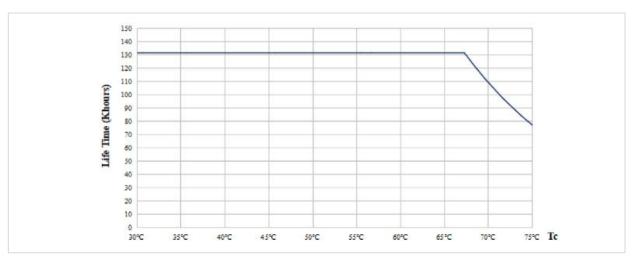
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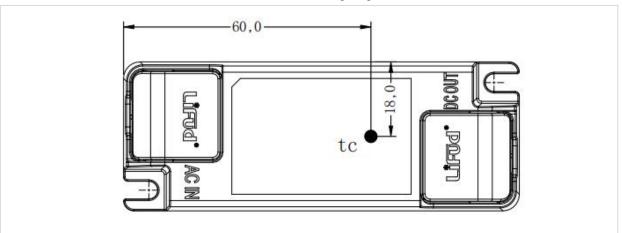


■ Product Characteristic Curves

Lifetime Curve



Tc Point Testing Diagram



■ Product Definitions

Product Terminal

Input		Output		
AC-L	AC-L Input terminal of AC live wire		Positive terminal output of LED driver	
AC-N	Input terminal of AC neutral wire	LED-	Negative terminal output of LED driver	



■ Product Definition

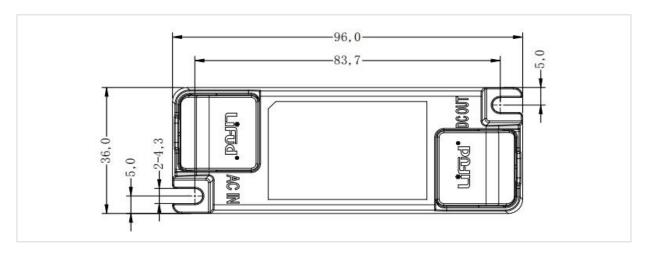
Product DIP Switch

I rated (CC)	1	2
100mA	-	-
150mA	ON	-
200mA	-	ON
250mA	ON	ON

Remark: "-": shift OFF. This table is only for DIP version. 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.

■ Structure & Dimensions (unit: mm)

Model	Overall Appearance Dimension (L*W*H)	Center-to-center Spacing of Positioning Hole	Diameter of Positioning Hole
LF-GIF009YS	96*36*24 mm (±0.5mm)	83.7 mm (±0.2mm)	4.3 mm



■ Packaging Specifications

Model	LF-GIF009YS
Carton Size	385*285*210mm (L*W*H)
Quantity	23 pcs/layer; 7 layers/ctn; 161 pcs/ctn
Weight	0.051±5%kg/pc; 8.56±5%kg/ctn

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■ Transportation and Storage

1. Transportation

- · 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.

2. Storage

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.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any content of this specification.