

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

LF - GIF 009 YS	
	 Y: complies with certifications; S: serial number 009: output power: 9W G: isolated design; IF: indoor flicker-free LED driver

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Model LF-GIF009YS							
	Output Voltage	25-42Vdc					
		Adjustable via DIP swtitch					
	Output Current	100mA	150m	A	200mA	250mA	
	Flicker	Complies with IEEE 1789-2015 standard.					
Output	CIE SVM	≤0.4					
	IEC-Pst	≤1.0	≤1.0				
	Current Tolerance	±12%	±8%			±5%	
	Temperature Drift	±10%	·				
	Startup Time	<0.5S					
	AC Input Voltage	220-240Vac (voltage limit: 198-264Vac)					
	DC Input Voltage	CInput Voltage 220-240Vdc (voltage limit: 180-264Vdc)					
	Input Frequency	0/50/60Hz					
	Input Current	0.07A max.					
	PF	≥0.96 ^①					
	THD	<20%					
Input	Efficiency	≥84% [©] ≤20A [®]					
	Inrush Current						
	Loading Quantities	Model	B10	C10	B16	C16	
	of Circuit Breaker	Quantity (pcs)	47	55	75	88	
	Leakage Current	≤0.7mA					
	Standby Power Consumption	≤0.5W					
Protections	Open Circuit	≤55Vdc					
Protections	Short Circuit	Hiccup mode (auto-recovery)					
	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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Model		LF-GIF009YS				
	Output Voltage		25-42Vdc			
	Output Current	135mA	160mA	180mA	220mA	250mA
	Flicker	Complies with IEEE 1789-2015 standard.				
Output CIE SVM ≤0.4						
	IEC-Pst	≤1.0				
	Current Tolerance	\pm 8%			\pm 5%	
	Temperature Drift	±10%				
	Startup Time	<0.5S				
	AC Input Voltage	220-240Vac (vo	220-240Vac (voltage limit: 198-264Vac)			
	DC Input Voltage	220-240Vdc (vo	ltage limit: 180-2	64Vdc)		
	Input Frequency	0/50/60Hz				
	Input Current	0.07A max.				
	PF	≥0.95 [®]				
	THD	<20%				
Input	Efficiency	≥84%®				
	Inrush Current	≤20A ^⑦				
	Loading Quantities	Model	B10	C10	B16	C16
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	Atmospheric Pressure	86-106kPa				

	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	ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384: 2016/A1:2009 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 CB:IEC 61347-1:2015, IEC61347-2-3:2014, IEC 61347-2- 13:2014/AMD1:2016 UKCA-LVD: EN 61347-1:2015/A1:2021, EN 61347-2- 13:2014/A1:2017, EN 62493:2015 RCM:AS 61347.2-13:2018 CCC:GB19510.1-2009, GB19510.14-2009	
	EMI	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 CCC:GB/T17743, GB17625.1, GB17625.2	
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11	
	IP Rating	IP20	
Other Parameters	RoHS	RoHS 2.0 (EU) 2015/863	
	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.		

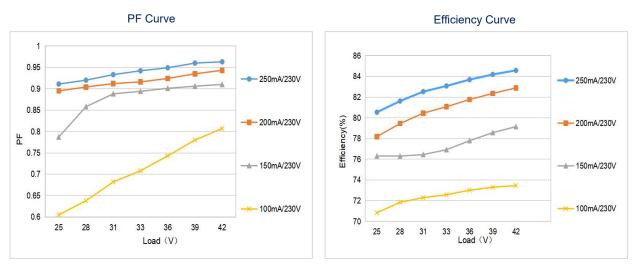
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Remarks	 It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. The LED driver used in combination with the end 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 test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 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.
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Notice:

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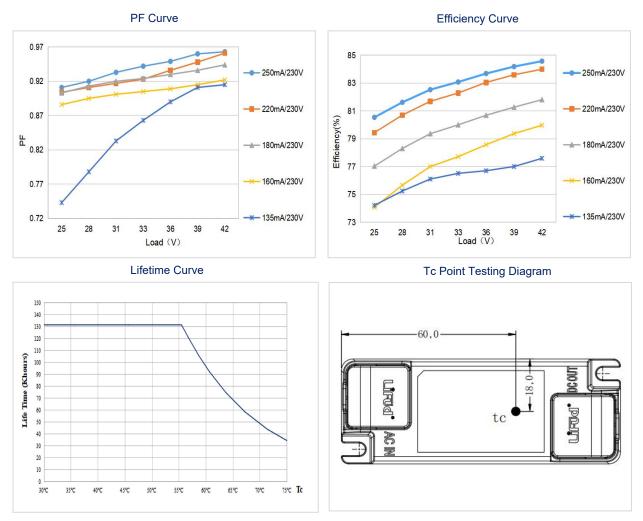
- ①: When the output voltage is 42V and the output current is 250mA, the PF is ≥0.96
- ②: When the output voltage is 42V and the output current is 250mA, the efficiency is ≥84%.
- 3: @150uS
- ④: 5 years @Tc≤71°C
- ⑤: When the output voltage is 42V and the output current is 250mA, the PF is ≥0.95
- (6): When the output voltage is 42V and the output current is 250mA, the efficiency is \geq 84%.
- ⑦: @150uS



Product Characteristic Curves

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Product Characteristic Curves



Product Definitions

Product Terminal

INPUT		OUTPUT	
AC-L	Input terminal of AC live wire	LED+	Positive electrode output of LED driver
AC-N	Input terminal of AC neutral wire	LED-	Negative electrode output of LED driver

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Product Definitions

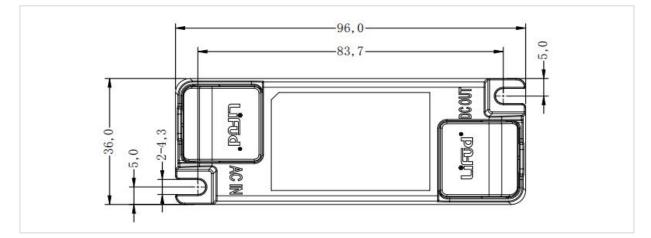
Product DIP Switch

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

Remark: "-": shift OFF

Structure & Dimensions (unit: mm)

Model	Overall Appearance Dimension	Center-to-center Spacing of	Diameter of Positioning
	(L*W*H)	Positioning Hole	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	$0.051\pm5\%$ kg/pc; $8.56\pm5\%$ 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 of 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 contents of this specification.