

Product Description

LF-GIF040YS is an EU-Standard flicker-free LED driver with the maximum output power of 42W. Its input voltage range is 220-240Vac, its output voltage range is 25-40Vdc and its output current range is 800-1050mA. It is suitable for Class II light fixtures

Features

- Flicker free
- High performance, low THD
- IP20
- 5-year warranty (please refer to the warranty condition.)

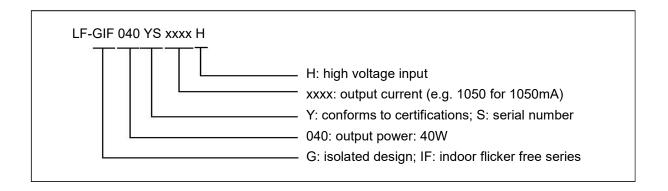


Applications

- Commercial lighting
- Indoor office lighting
- Decorative lighting
- Residential lighting

Product Naming

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Electrical Characteristics 1

Model		LF-GIF040YS						
	Output Voltage	33-40Vdc						
	Output Current	800mA	850mA	900mA	950mA	1000mA	1050mA	
	Modulation Depth	<0.5%						
Output	IEC-PST	≤1						
	CIE SVM	≤0.4						
	Current Tolerance	±5%						
	Temperature Drift	±10%						
	Start-up Time	<0.5S@230Vac						
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)						
	Input Frequency	47Hz-63Hz						
	Input Current	0.28A max.						
	Power Factor	≥0.95@230Vac						
	THD	≤20%@230Vac						
Input	Efficiency	≥87%	≥87.5%	≥87.5%	≥87.5%	≥88%	≥88%	
	Inrush Current	≤27A & 154uS@230Vac						
	Load Quantity Carried by the Circuit Breaker	Circuit Brea	ker Model	B10	C10	B16	C16	
		Quantit	y (pcs)	20	34	33	56	
	Leakage Current	≤0.7mA						
	Standby Power Consumption	≤0.5W						
Protection Features	Open Circuit Protection	<55V						
	Short Circuit Protection	Hiccup mode (auto-recovery)						
Environment Descriptions	Operating Temperature	-30℃ - +45℃						
	Operating Humidity	20-90%RH (no condensation)						
		-30℃ - 80℃ (six months under class I environment);						
		10-90%RH (no condensation)						
	Atmospheric Pressure	86kPa~106kPa						

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Withstanding Voltage I/P-O/P: 3.75kV 5mA 60S Insulation Resistance I/P-O/P: >100MΩ@500Vdc ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 201 EN 62384: 2016/A1: 2009;	7,			
ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 201	7,			
	7,			
EN 62384: 2016/A1: 2000:				
EN 02304. 2010/A1. 2009,				
CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2	.015,			
Safety & Safety Standards EN 62493: 2015;				
CB: IEC 61347-1: 2015, IEC61347-2-3: 2014,				
IEC 61347-2-13: 2014/AMD1: 2016;				
SAA: AS 61347.2-13: 2018;				
CCC: GB19510.1-2009, GB19510.14-2009				
CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3				
CCC:GB/T17743, GB17625.1, GB17625.2				
CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1k\	V), 6, 11			
CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11				
IP Rating IP20				
Others RoHS RoHS 2.0 (EU) 2015/863				
Warranty Condition 5 years (Tc≤89°C)				
AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilla	·			
chamber lightning surge generator. Everfine EMS61000 5B, rapid group	DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator:			
Equipment	Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester			
(flicker-free coefficient tester) 60N-01, etc.	· · · · · · · · · · · · · · · · · · ·			
✓ It is recommended that customer should install overvoltage and undervol	tage protection			
	devices and surge protection devices in the power supply circuits of the light fixtures to			
ensure safety before connecting to electricity.	ensure safety before connecting to electricity. ✓ The PC cover, casing, end caps and other parts of the LED driver inside the LED light			
	fixture must conform to UL94-V0 flammability standard or above.			
	✓ As an accessory, the LED driver is not the only factor determining the EMC performance of			
	the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus			
it's strongly recommended the LED light fixture manufacturer should re-conf	it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of			
the whole LED light fixture.				
	too containing of the choice of the containing			
	the inrush current test. ✓ 5. Unless otherwise stated, the parameters above are test results under these conditions:			
· ·	ambient temperature 25°C, humidity 50%, input voltage 230Vac/50Hz and 100% load.			



Electrical Characteristics 2

Model		LF-GIF040YS					
	Output Voltage	25-38Vdc					
	Output Current	800mA	850mA	900mA	950mA	1000mA	1050mA
	Modulation Depth	<0.5%					
Output	IEC-PST	≤1					
	CIE SVM	≤0.4					
	Current Tolerance	±5%					
	Temperature Drift	±10%					
	Start-up Time	<0.5S@230Vac					
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)					
	Input Frequency	47Hz-63Hz					
	Input Current	0.28A max.					
	Power Factor	≥0.9@230Vac					
	THD	≤20%@230Vac					
Input	Efficiency	≥87%	≥87.5%	≥87.5%	≥87.5%	≥88%	≥88%
	Inrush Current	≤27A & 154uS@230Vac					
	Load Quantity Carried by the Circuit Breaker	Circuit Brea	iker Model	B10	C10	B16	C16
		Quantity (pcs) 21 35 34 57					
	Leakage Current	≤0.7mA					
	Standby Power Consumption	≤0.5W					
Protection	Open Circuit Protection	<55V					
Features	Short Circuit Protection	Hiccup mode (auto-recovery)					
Environment Descriptions	Operating Temperature	-30℃ - +45℃					
	Operating Humidity	20-90%RH (no condensation)					
		-30℃ - 80℃ (six months under class I environment);					
		10-90%RH (no condensation)					
	Atmospheric Pressure	86kPa~106kPa					

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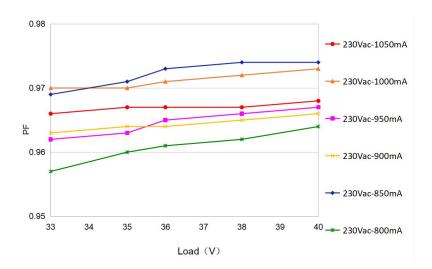


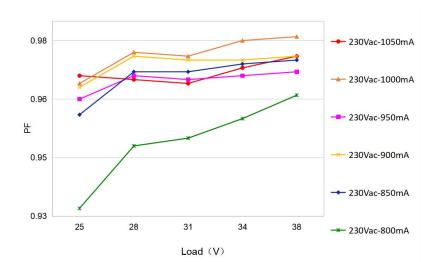
	Certifications	Complies with CE		
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S		
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc		
		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,		
		EN 62384: 2016/A1: 2009;		
		CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,		
Safety &	Safety Standards	EN 62493: 2015;		
Electromagnetic	-	CB: IEC 61347-1: 2015, IEC61347-2-3: 2014,		
Compatibility		IEC 61347-2-13: 2014/AMD1: 2016;		
		SAA: AS 61347.2-13: 2018;		
		CCC: GB19510.1-2009, GB19510.14-2009		
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3		
	Livii	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		
Others	RoHS	RoHS 2.0 (EU) 2015/863		
	Warranty Condition	5 years (Tc≤89°C)		
Test 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: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc.			
	✓ It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices in the power supply circuits of the light fixtures to			
	ensure safety before connecting to electricity.			
	✓ The PC cover, casing, end caps and other parts of the LED driver inside the LED light			
	fixture must conform to UL94-V0 flammability standard or above. ✓ As an accessory, the LED driver is not the only factor determining the EMC performance of			
Remarks	the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus			
	it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of			
	the whole LED light fixture.			
	 ✓ The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current test. ✓ 5. Unless otherwise stated, the parameters above are test results under these conditions ambient temperature 25°C, humidity 50%, input voltage 230Vac/50Hz and 100% load. 			



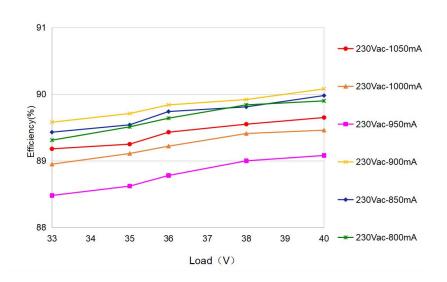
Characteristic Curves

■ PF Curves

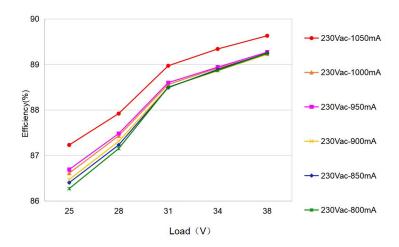




■ Efficiency Curves

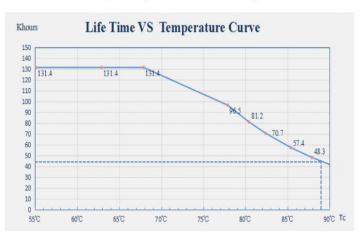






■ Lifetime Curve

Be based on 230Vac/40Vdc Expected Life Above 43.8Khour@ Tc=89.0°C



Definition of Driver's Terminal

INPUT

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AC-N	Input terminal of AC neutral wire
AC-L	Input terminal of AC live wire

OUTPUT

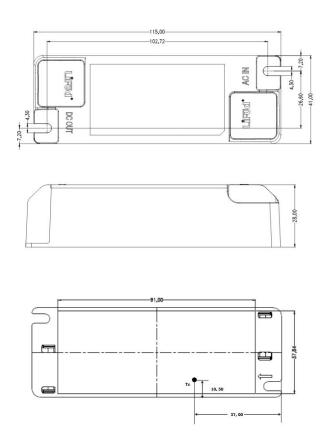
LED+	Positive electrode output of the driver
LED-	Negative electrode output of the driver



Label



Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-GIF040YS
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 6 layers/ctn; 84 pcs/ctn
Weights	0.099 kg±5%/pc; 8.4 kg±5%/ctn



Transportation & Storage

■ Transportation

- Suitable transportation means: vehicles, boats and aircraft.
- During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

■ Storage

 Storage in accordance with the provisions of Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.