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› Lifud LF-GIF060YS1500H LED Driver Instruction Manual

Lifud LF-GIF060YS1500H

Lifud LF-GIF060YS1500H LED Driver Instruction Manual

Model: LF-GIF060YS1500H

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of the Lifud LF-GIF060YS1500H LED Driver. This 60W isolated flicker-free LED driver is designed for various lighting applications, including indoor office, decorative, commercial, and residential lighting. It features a rated input voltage range of 220-240Vac and an output voltage range of 30-40Vdc with a constant current of 1500mA. Please read this manual thoroughly before installation and operation.

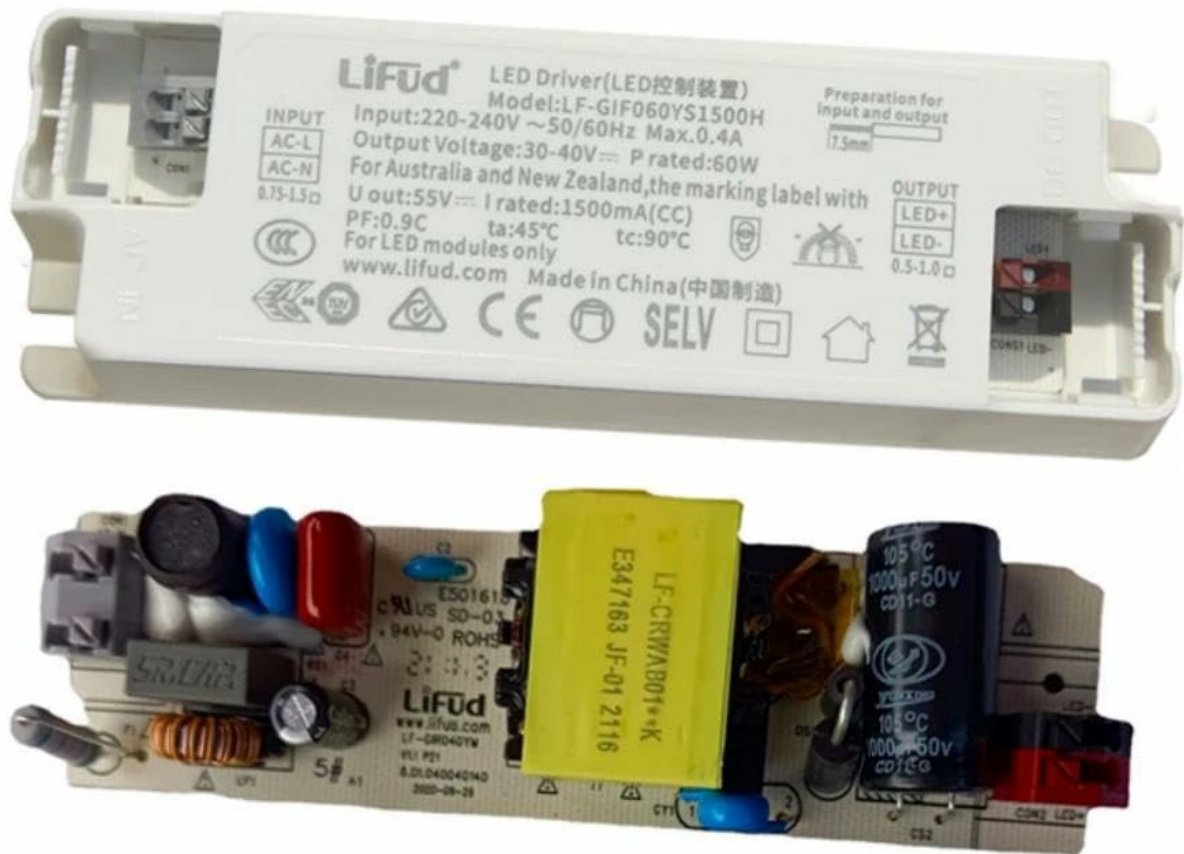


Figure 1: Lifud LF-GIF060YS1500H LED Driver. This image shows the compact, rectangular LED driver with blue end caps, displaying product labels with specifications and certifications.

2. SAFETY INFORMATION AND CAUTIONS

Observe the following safety precautions to prevent injury or damage to the product:

- Always use the Lifud LED driver according to its specified parameters. Failure to do so may result in malfunction.
- Do not use this driver with incompatible light fixtures or those not certified for use with this driver. Incompatible use may cause fire, explosion, or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.
- It is recommended that users 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 is a component of the light fixture. The manufacturer of the LED light fixture must 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 must be 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.

3. PRODUCT OVERVIEW AND FEATURES

The LF-GIF060YS1500H is a high-performance LED driver designed for reliability and efficiency. Key features include:

- **Flicker-Free Operation:** Complies with IEEE1789 standard for reduced visual fatigue.
- **High Efficiency:** Greater than 89% efficiency at 230Vac.
- **High Power Factor (PF):** Greater than 0.95 at 230Vac.
- **Low Total Harmonic Distortion (THD):** Less than 20% at 230Vac.
- **Comprehensive Protections:** Includes open circuit (<55V) and short circuit (hiccup mode auto-recovery) protections.
- **Certifications:** ENEC, CE, CB, RCM, CCC certified.
- **IP Rating:** IP20, suitable for indoor applications.
- **Class II Fixture Compatibility:** Designed for Class II light fixtures.

4. SPECIFICATIONS

4.1 Electrical Characteristics

■ Electrical Characteristics

Model		LF-GIF060YSxxxxH				
Output	Output Voltage	30-40V				
	Output Current	1350mA	1400mA	1450mA	1500mA	1550mA
	Flicker	Complies with IEEE 1789 standard.				
	CIE SVM	≤0.4				
	IEC-Pst	≤1.0				
	Current Tolerance	±5%				
	Temperature Drift	±10%				
	Startup Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 200-264Vac)				
	Input Frequency	47Hz-63Hz				
	Input Current	0.5A max.				
	PF	≥0.95@230Vac				
	THD	≤20%@230Vac				
	Efficiency	≥89%@230Vac				
	Inrush Current	≤40A&150uS@230Vac				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	16	26	27	43
	Leakage Current	≤0.7mA				
	Standby Power Consumption	≤0.5W				
Protections	Open Circuit	<55V				
	Short Circuit	Hiccup mode (auto-recovery)				
Environment Descriptions	Operating Temperature	-30°C - +45°C				
	Operating Humidity	0-95%RH (no condensation)				
	Storage Temperature/ Humidity	-30°C - 80°C (6 months in Class I environment); 0-95%RH (no condensation)				
	Atmospheric Pressure	86-106kPa				

Figure 2: Electrical Characteristics Table (Part 1). This table details output voltage, output current options, flicker compliance, CIE SVM, IEC-Pst, current tolerance, startup time, input voltage, input frequency, input current, PF, THD, efficiency, inrush current, loading quantities, leakage current, and standby power consumption.

■ Electrical Characteristics

Safety & EMC	Certifications	ENEC, CE, CB, RCM, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1: 2015, EN61347-2-13: 2014/A1: 2017, EN62384 2016/A1: 2009 CE-LVD: EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015 CB: IEC61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 CCC: GB19510.1-2009, GB19510.14-2009 FCC: PART 15B
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 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
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc ≤88°C)
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.	
Testing 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.	

Figure 3: Electrical Characteristics Table (Part 2) and Safety Information. This table continues with protections, operating and storage environment descriptions, certifications, withstand voltage, insulation resistance, safety and EMC standards, EMI, EMS, IP rating, RoHS compliance, and warranty information.

Key Electrical Specifications

Parameter	Value
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Parameter	Value
Model Number	LF-GIF060YS1500H
Input Voltage	220-240Vac
Input Frequency	47-63Hz
Output Voltage	30-40Vdc
Rated Power	60W
Rated Current	1500mA (Constant Current)
Power Factor (PF)	>0.95 @ 230Vac
Total Harmonic Distortion (THD)	<20% @ 230Vac
Efficiency	>89% @ 230Vac
Protections	Open Circuit (<55V), Short Circuit (Hiccup mode auto-recovery)
IP Rating	IP20
Operating Temperature	-30°C to +45°C

4.2 Mechanical Dimensions

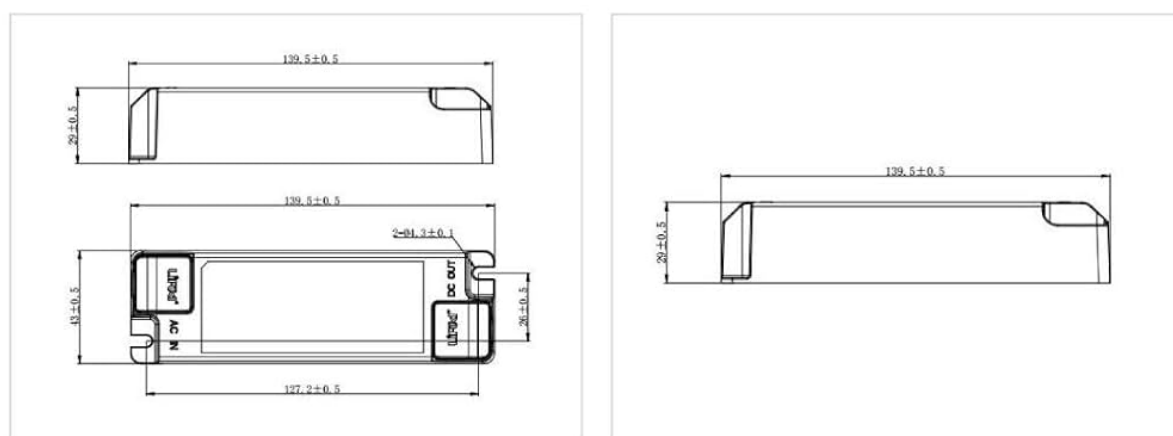
■ Product Definitions

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

■ Structure & Dimensions (unit: mm)

Overall Appearance Dimension (L*W*H)	Center-to-center Spacing of Positioning Hole	Diameter of Positioning Hole
139.5*43*29 mm	127.2*26 mm	4.3 mm



■ Packaging Specifications

Model	LF-GIF060YSxxxxH
Carton Size	385*285*210mm (L*W*H)
Quantity	11 pcs/layer; 6 layers/ctn; 66 pcs/ctn
Weight	0.14 kg/pc; 10 kg/ctn

Figure 4: Product Definitions and Dimensions. This image shows the terminal definitions (AC-L, AC-N, LED+, LED-) and a table with overall appearance dimensions (L*W*H), center-to-center spacing of positioning hole, and diameter of positioning hole, along with detailed technical drawings of the driver's physical dimensions.

Dimensions and Packaging

Parameter	Value
Overall Appearance Dimension (L*W*H)	139.5 × 43 × 29 mm
Center-to-center Spacing of Positioning Hole	127.2 × 26 mm
Diameter of Positioning Hole	4.3 mm
Weight per piece	0.14 kg/pc

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of the LED driver. This driver is suitable for Class II light fixtures.

5.1 Terminal Definitions

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

5.2 Installation Guidelines

1. Ensure the power supply is disconnected before any installation work.
2. Connect the AC input wires (AC-L and AC-N) to the appropriate mains supply terminals.
3. Connect the LED output wires (LED+ and LED-) to the corresponding input terminals of the LED module. Ensure correct polarity.
4. Mount the driver securely within the light fixture, ensuring adequate ventilation and adherence to the specified operating temperature range (-30°C to +45°C).
5. Verify that the PC cover, casing, and end cap used for assembling the LED driver meet the fire rating of UL94-V0 or above.
6. After installation, double-check all connections for security and proper insulation before restoring power.

6. OPERATING INSTRUCTIONS

The Lifud LF-GIF060YS1500H LED driver operates automatically once properly installed and connected to a compatible LED load and power supply. It provides a constant current output to the LED module.

- Ensure the input voltage is within the 220-240Vac range.
- The driver will automatically provide the specified 1500mA constant current to the connected LED load, maintaining an output voltage between 30-40Vdc.
- The flicker-free design ensures stable light output, complying with IEEE1789 standards.

7. MAINTENANCE AND STORAGE

7.1 Transportation

Suitable transportation methods include vehicles, boats, and airplanes. During transit, it is necessary to prepare awnings for rain or sun protection. Additionally, ensure careful loading and unloading to prevent vibration or impact damage to the LED driver.

7.2 Storage

The LED driver should be stored in compliance with the standard of Class I environment. If LED drivers have been stored for more than 6 months, re-test them before use. Do not use untested drivers.

■ 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.

Figure 5: Transportation, Storage, and Cautions. This image outlines guidelines for transporting and storing the LED driver, emphasizing protection from elements and re-testing after prolonged storage. It also reiterates critical safety cautions regarding usage and compatibility.

8. TROUBLESHOOTING

The LF-GIF060YS1500H LED driver incorporates built-in protection mechanisms to ensure reliable operation. If the driver is not functioning as expected, consider the following:

- **No Light Output:** Check all electrical connections, including input AC and output LED connections, for proper wiring and secure contact. Ensure the input voltage is within the specified range (220-240Vac).
- **Intermittent Operation:** This could indicate a short circuit. The driver features a hiccup mode auto-recovery for short circuits. If the issue persists, disconnect power, inspect the LED load and wiring for faults, and re-connect.
- **Over-voltage Protection:** The driver has open circuit protection (<55V). If the output voltage exceeds this limit due to an open circuit in the LED load, the driver will protect itself. Verify the LED load is correctly connected and not open.
- **Overheating:** Ensure the driver is installed in an environment with adequate ventilation and within its specified operating temperature range (-30°C to +45°C). Excessive heat can lead to reduced lifespan or malfunction.
- **Flickering:** While the driver is designed to be flicker-free (IEEE1789 compliant), if flickering occurs, verify the LED load compatibility and ensure stable input power.

If troubleshooting steps do not resolve the issue, consult a qualified electrician or contact customer support.

9. WARRANTY INFORMATION

The Lifud LF-GIF060YS1500H LED Driver comes with a **5-year warranty**, provided the Tc (case temperature) does not exceed 88°C during operation. This warranty covers defects in materials and workmanship under normal use and service conditions. Please note that man-made damage is not covered under this warranty.

For warranty claims, please retain your proof of purchase and contact your supplier or Lifud customer service.

10. CUSTOMER SUPPORT

For further assistance, technical inquiries, or support regarding the Lifud LF-GIF060YS1500H LED Driver, please contact your point of purchase or refer to the official Lifud website for contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question