

FCPLEXSW ZF-NEH050S1000WWW

FCPLEXSW 40W Indoor Constant Current LED Driver

Model: ZF-NEH050S1000WWW

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your FCPLEXSW 40W Indoor Constant Current LED Driver, Model ZF-NEH050S1000WWW. Please read this manual thoroughly before installation and keep it for future reference.

This LED driver is designed to provide a stable constant current output for various LED lighting applications, including panel lamps and downlights, ensuring optimal performance and longevity of your LED fixtures.

2. IMPORTANT SAFETY INSTRUCTIONS

WARNING: Risk of electric shock. Installation should only be performed by a qualified electrician in accordance with all national and local electrical codes.

- Disconnect power at the circuit breaker before installing or servicing the LED driver.
- Ensure the input voltage and current ratings of the driver match your electrical supply and LED load requirements.
- This product is designed for **indoor use only**. Do not expose to moisture or direct water.
- Do not open the driver casing. There are no user-serviceable parts inside.
- Ensure proper ventilation around the driver to prevent overheating.
- Use appropriate wire gauges for connections to prevent overheating and ensure safe operation.

3. PRODUCT OVERVIEW

The FCPLEXSW ZF-NEH050S1000WWW is a 40W constant current LED driver designed for reliable power delivery to compatible LED luminaires. It features an isolated power supply design for enhanced safety and electromagnetic compatibility.

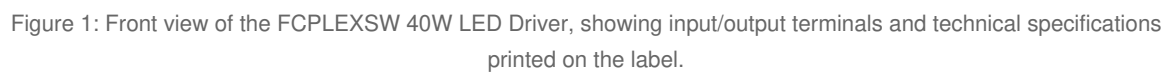


Figure 1: Front view of the FCPLEXSW 40W LED Driver, showing input/output terminals and technical specifications printed on the label.



产品特点：隔离 高PF 无频闪 宽压认证款

产品型号 Model	额定功率 Rated power	输出电流 Output Current	输入电压 Input Voltage	输出电压 Output Voltage	效率 Efficiency	功率因素 Power Factor	裸板尺寸 (L*W*H)	外置尺寸 (L*W*H)
ZF-NEH050S0600WWW	25W	600mA±5%	100-277VAC	28-42VDC	89%	≥0.9	115*40*22	131*45*24
ZF-NEH050S0700WWW	28W	700mA±5%	100-277VAC	28-42VDC	89%	≥0.9	115*40*22	131*45*24
ZF-NEH050S0800WWW	32W	800mA±5%	100-277VAC	28-42VDC	89%	≥0.9	115*40*22	131*45*24
ZF-NEH050S0900WWW	36W	900mA±5%	100-277VAC	28-42VDC	89%	≥0.9	115*40*22	131*45*24
ZF-NEH050S1000WWW	40W	1000mA±5%	100-277VAC	28-42VDC	89%	≥0.9	115*40*22	131*45*24

Figure 2: Internal components and overall dimensions of the LED driver, including a table of various models and their specifications.

4. TECHNICAL SPECIFICATIONS

Parameter	Value
Model	ZF-NEH050S1000WWW
Type	Isolated Power Supply
Input Voltage	100-277V AC
Input Frequency	50/60 Hz
Input Current	0.50A (Max)
Output Voltage	28-42V DC
Output Current	1000mA (1A) Constant Current
Output Power	40W

Parameter	Value
Efficiency	89%
Power Factor (PF)	≥ 0.9
Protection	Overload Protection
Installation Location	External
Protection Class	Class I
Operating Temperature (Ambient)	-40°C to 60°C
Max Case Temperature (Tc)	80°C
Applicable Lamps	LED Lamps (Panel, Downlight, etc.)
Overall Dimensions (L*W*H)	131 x 45 x 24 mm
Certifications	CE, CB, SELV
Lifespan	43,800 hours
Weight	145g

5. INSTALLATION GUIDE

5.1 Before Installation

- Verify that the LED driver's specifications (input voltage, output voltage, and current) are compatible with your LED fixtures and electrical supply.
- Ensure the installation environment is dry and well-ventilated, within the specified operating temperature range.
- Turn off the main power supply at the circuit breaker before beginning any wiring.

5.2 Wiring Instructions

The LED driver has clearly marked input and output terminals. Follow the diagram below and ensure all connections are secure and insulated.

- **Input (AC):** Connect the AC Live (L) wire to the 'AC-L' terminal and the AC Neutral (N) wire to the 'AC-N' terminal.
- **Output (DC):** Connect the positive (+) wire of your LED fixture to the '+' terminal and the negative (-) wire to the '-' terminal of the driver's output.
- Ensure all wiring is done according to local electrical codes and standards.
- Double-check all connections before restoring power.

Note: Incorrect wiring can damage the driver, LED fixtures, or pose a safety hazard. If you are unsure, consult a qualified electrician.

6. OPERATION

Once properly installed and connected, the FCPLEXSW LED driver operates automatically. It provides a

constant current output to the connected LED fixtures. There are no user-adjustable settings or controls on the driver itself.

- Upon power-up, the driver will supply power to the connected LEDs.
- Ensure the total wattage of the connected LEDs does not exceed the driver's maximum output power of 40W.

7. MAINTENANCE

The FCPLEXSW LED driver is designed for long-term, maintenance-free operation. However, periodic inspection can help ensure its continued performance.

- **Cleaning:** Keep the driver free from dust and debris. Use a soft, dry cloth to gently wipe the exterior. Do not use liquid cleaners.
- **Inspection:** Periodically check for any visible signs of damage to the casing or wiring. Ensure all connections remain secure.
- **Ventilation:** Ensure that the area around the driver remains unobstructed to allow for proper heat dissipation.

Note: Do not attempt to open or repair the driver. Refer all servicing to qualified personnel.

8. TROUBLESHOOTING

If you encounter issues with your LED lighting system, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
LEDs do not light up	No power supply Incorrect wiring Faulty LED fixture Driver failure	Check power source and circuit breaker. Verify all input and output connections. Test LED fixture with a known good driver. Replace driver if necessary.
LEDs flicker or dim	Loose connections Overloaded driver Incompatible LED fixture Driver overheating	Check and secure all wiring connections. Ensure total LED wattage is within driver's capacity. Verify LED fixture compatibility with constant current driver. Ensure adequate ventilation around the driver.
Driver is hot to touch	Poor ventilation Overload	Improve airflow around the driver. Reduce the load on the driver to within its rated capacity.

If the problem persists after following these steps, contact customer support or a qualified electrician.

9. WARRANTY AND SUPPORT

FCPLEXSW products are manufactured to high-quality standards. While specific warranty details are not provided in this manual, please refer to the product packaging or your point of purchase for warranty information.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or the FCPLEXSW customer service department. Keep your purchase receipt and model number handy when

contacting support.