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› NOYITO AC to DC Power Supply Module 36V 5A (Model NOACDC365-180) User Manual

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Overview Specifications Setup Operation Maintenance Troubleshooting Support

Safety Information Product

1. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this power supply module. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Hazard:** This module operates with high voltage AC input. Ensure power is disconnected before making any connections or performing maintenance.
- **Professional Installation:** Installation should be performed by qualified personnel familiar with electrical wiring and safety standards.
- **Ventilation:** Ensure adequate ventilation to prevent overheating, especially during prolonged operation at high loads. The module requires strengthening heat dissipation when working for a long time.
- **Overload Protection:** The module includes overvoltage, overcurrent, and short circuit protection. Do not overload the module beyond its specified output current and power ratings.
- **Environment:** Do not expose the module to moisture, dust, or extreme temperatures.
- **Insulation:** Ensure all connections are properly insulated to prevent accidental contact.

2. PRODUCT OVERVIEW

The NOYITO AC to DC Power Supply Module (Model NOACDC365-180) is a high-power industrial-grade switching power supply designed to convert AC input voltage (100V-240V) to a stable DC 36V output. It is suitable for various civil and industrial electrical power supply applications, providing a maximum output current of 5A and a total power of 180W. The module features built-in protection mechanisms for overvoltage, overcurrent, and short circuits.

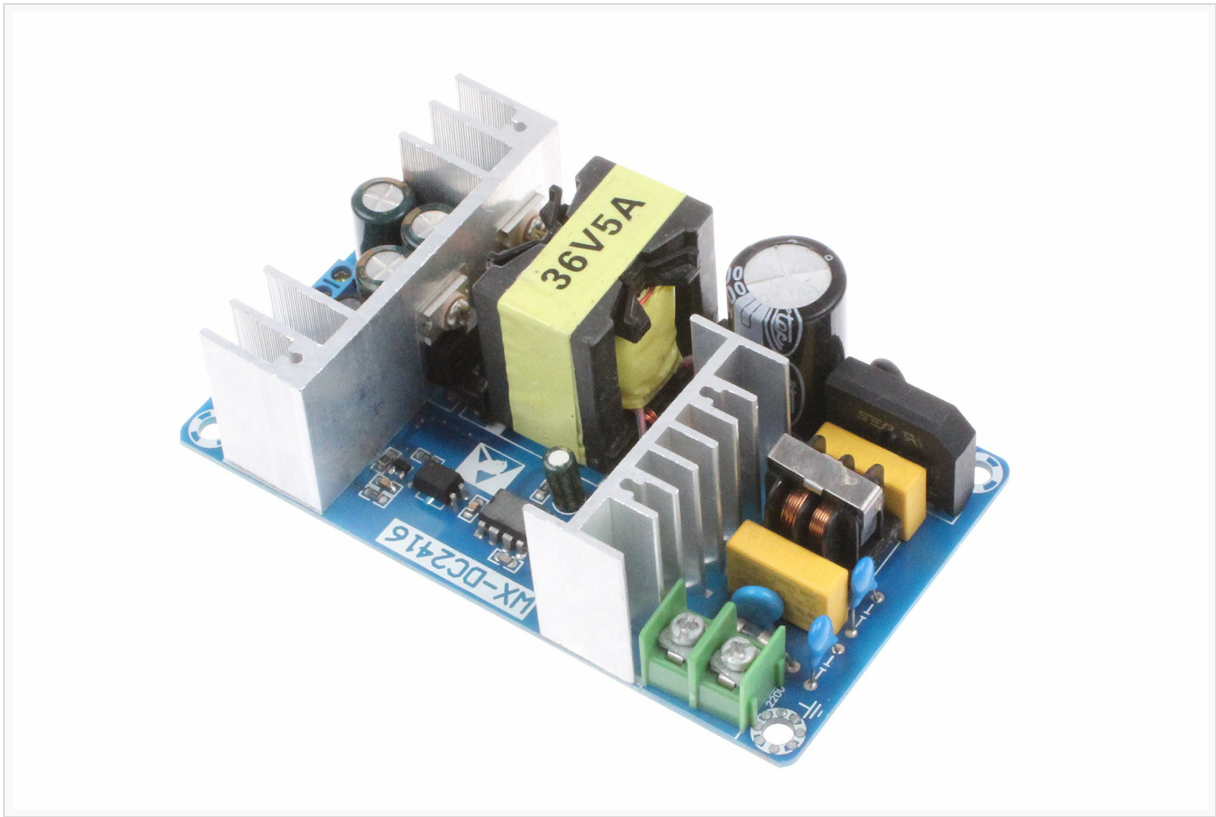


Figure 2.1: General view of the NOYITO AC to DC Power Supply Module. This image shows the overall layout of the circuit board with its main components, including the transformer and heat sinks.

3. SPECIFICATIONS

Parameter	Value
Model Number	NOACDC365-180
AC Input	AC 100V - 240V, 50/60Hz
Output Voltage	DC 36V
Output Current	5A (Max)
Output Power	180W (Max)
Protection Functions	Oversoltage Protection, Overcurrent Protection, Short Circuit Protection
Product Dimensions (L x W x H)	4.53 x 2.56 x 1.38 inches (11.5 x 6.5 x 3.5 cm)
Item Weight	7.1 ounces (200 Grams)
Cooling Method	Air (requires external heat dissipation for prolonged high-load operation)

4. SETUP INSTRUCTIONS

Before proceeding with installation, ensure all power sources are disconnected. This module is designed for integration into existing electrical systems and requires careful wiring.

4.1. Identifying Terminals

Refer to the image below for terminal identification. The module typically has clearly labeled input (AC) and output (DC) terminals.

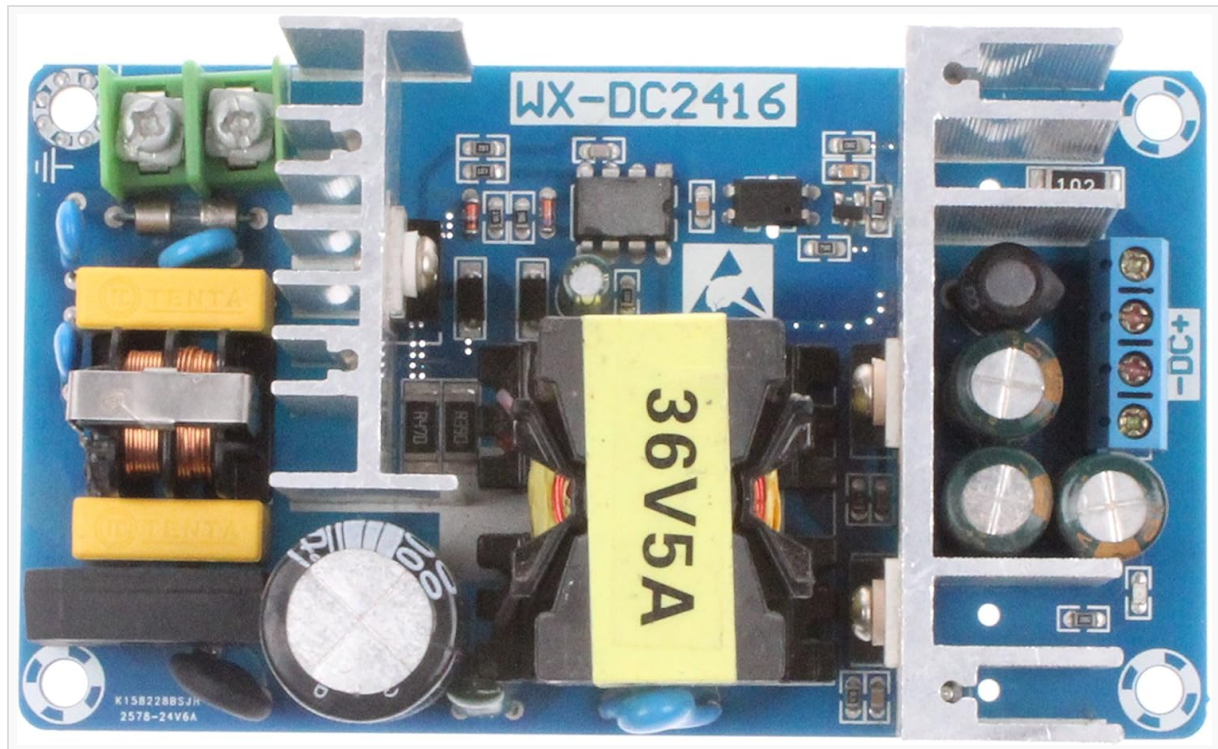


Figure 4.1: Top view of the power supply module, highlighting the input and output terminals. The AC input terminals are typically labeled 'N' (Neutral), 'L' (Live), and a ground symbol. The DC output terminals are labeled '+V' and '-V'.

4.2. Wiring the AC Input

1. Ensure the main power supply is OFF at the circuit breaker.
2. Connect the AC Live wire to the 'L' terminal on the module.
3. Connect the AC Neutral wire to the 'N' terminal on the module.
4. Connect the Ground wire to the ground symbol terminal.
5. Secure all connections firmly using appropriate tools.

4.3. Wiring the DC Output

1. Connect the positive (+) terminal of your DC load to the '+V' terminal on the module.
2. Connect the negative (-) terminal of your DC load to the '-V' terminal on the module.
3. Verify that the connected load's voltage and current requirements do not exceed the module's specifications (36V, 5A, 180W).
4. Ensure all connections are secure and properly insulated.

4.4. Heat Dissipation

For applications requiring prolonged operation at or near maximum load, additional heat dissipation measures may be necessary. This could include mounting the module in a well-ventilated enclosure or adding external heat sinks/fans if the ambient temperature is high.

5. OPERATING INSTRUCTIONS

Once the module is correctly wired and all safety precautions are observed:

1. Turn on the main AC power supply.
2. The module will immediately provide a stable DC 36V output.
3. Monitor the performance of your connected device. If any unusual behavior (e.g., smoke, excessive heat, flickering) is observed, immediately disconnect power and investigate the cause.
4. This module does not feature adjustable output; it provides a fixed 36V DC output.

6. MAINTENANCE

The NOYITO Power Supply Module is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure its longevity and safe performance.

- **Cleaning:** Periodically inspect the module for dust accumulation. If necessary, disconnect power and gently clean the module and its heat sinks with a soft brush or compressed air to maintain optimal cooling.
- **Connection Checks:** Occasionally verify that all input and output wiring connections remain secure and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Visual Inspection:** Look for any signs of physical damage, discoloration, or bulging capacitors. If any are found, discontinue use and replace the module.

7. TROUBLESHOOTING

If you encounter issues with your power supply module, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No output voltage	No AC input power Incorrect wiring Internal fault	Check AC power source and connections. Verify input/output wiring according to Section 4. If wiring is correct, the module may be faulty and require replacement.
Output voltage is unstable or incorrect	Overload condition Loose connections Faulty load device	Reduce the load to within specifications. Check all wiring connections for tightness. Test the module with a different, known-good load.
Module is overheating	Insufficient ventilation Excessive ambient temperature Overload condition	Ensure adequate airflow around the module. Consider adding external cooling. Operate within recommended temperature ranges. Reduce the load.
Short circuit protection activates	Short circuit in the load or wiring	Immediately disconnect power. Identify and rectify the short circuit in your load or wiring. Reconnect power only after the fault is cleared.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please contact NOYITO customer service or refer to the official product page where you purchased the module. Keep your purchase receipt for warranty claims.

Additional product documentation, including detailed dimensions, may be available for download. Please check the product listing or manufacturer's website for relevant links.