

ASHATA ASHATAni8c7fy1wd

ASHATA 12V ATX Power Supply, 90W DC-ATX Power Module Instruction Manual

Model: ASHATAni8c7fy1wd

1. INTRODUCTION

This manual provides comprehensive instructions for the ASHATA 12V ATX Power Supply, a 90W DC-ATX power module. This compact and efficient module is designed for various low-power computing systems, including mini computers, HTPC systems, POS machines, ITX boxes, network servers, advertising machines, and bank terminals.

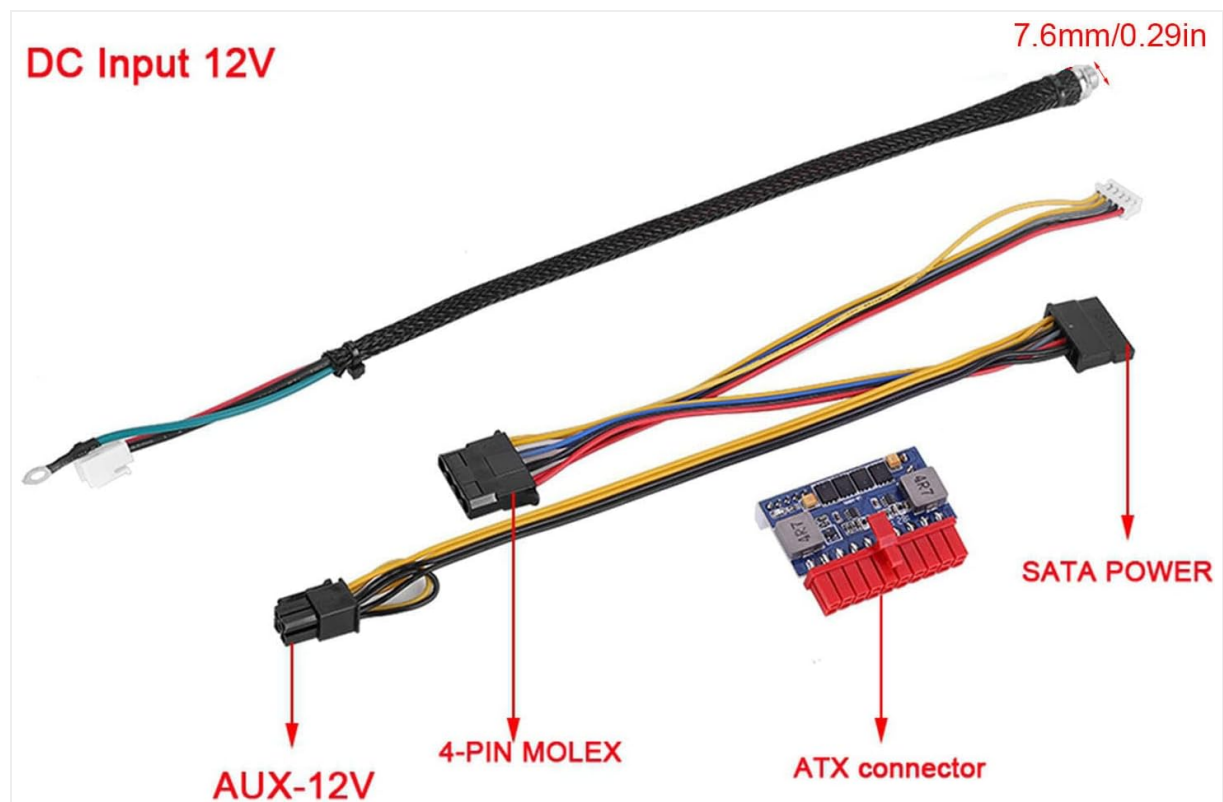


Image 1: ASHATA 90W DC-ATX Power Module suitable for various applications.

2. SAFETY INFORMATION

- Ensure the input voltage is within the specified range (12VDC \pm 5%). Incorrect voltage can damage the device.
- Do not expose the power module to moisture or extreme temperatures.
- Avoid short-circuiting the output terminals.
- Disconnect power before making any connections or disconnections.
- This device is designed for internal use within a computer chassis.

3. PRODUCT OVERVIEW

3.1 Features

- **Industrial Solid Capacitors:** Designed for reliability and stability in demanding environments.
- **High Performance:** Features high heat-stand capabilities for enhanced durability.
- **Fanless Operation:** Ensures silent operation, ideal for noise-sensitive applications.
- **Compact Design:** Specifically engineered for mini-ITX and 1U cases, optimizing space.
- **90W Output:** Provides up to 90W of power, requiring an external 12V power adapter (not included).



Image 2: The power module features high performance and heat-stand capabilities.

**Adopt industrial solid capacitor, ideal for
being used in harsh environment.**

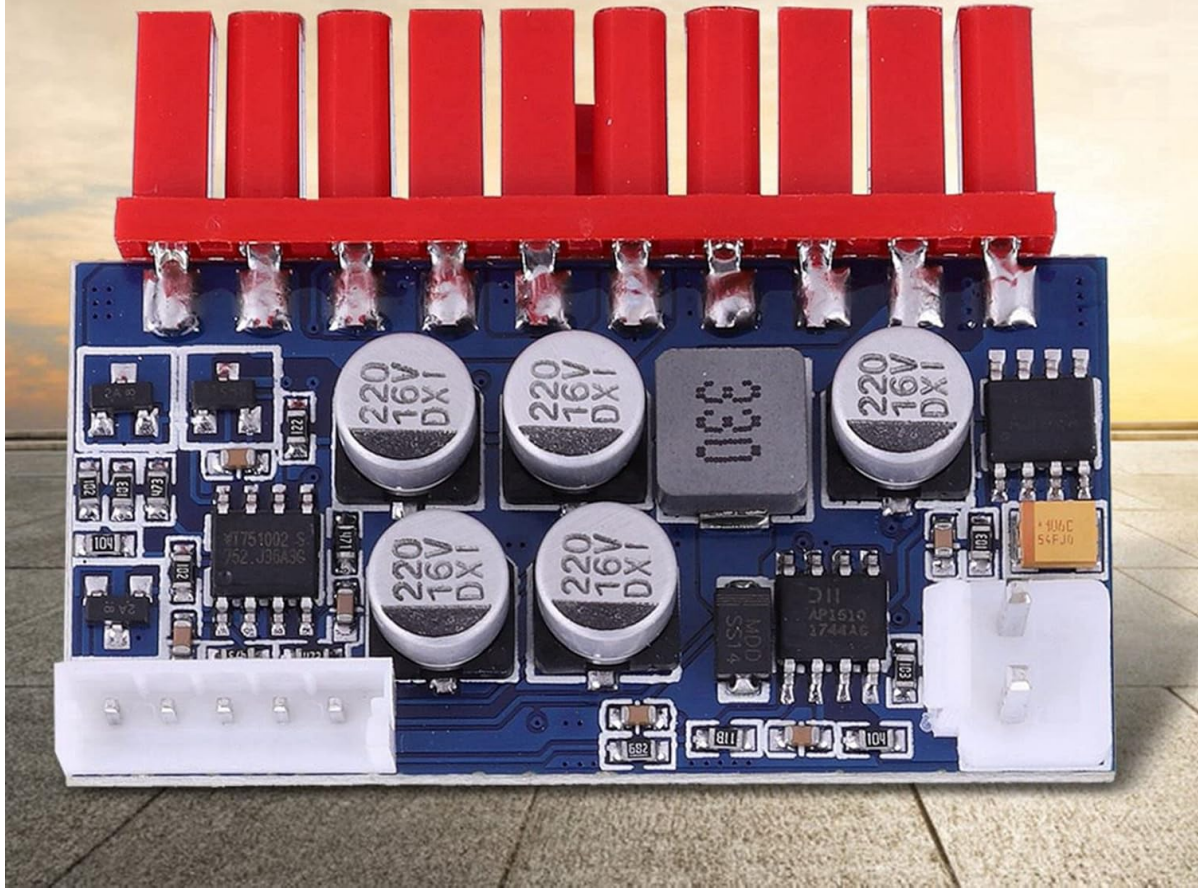


Image 3: Industrial solid capacitors ensure reliability in harsh environments.

Compact design, special for mini-itx and 1U case.

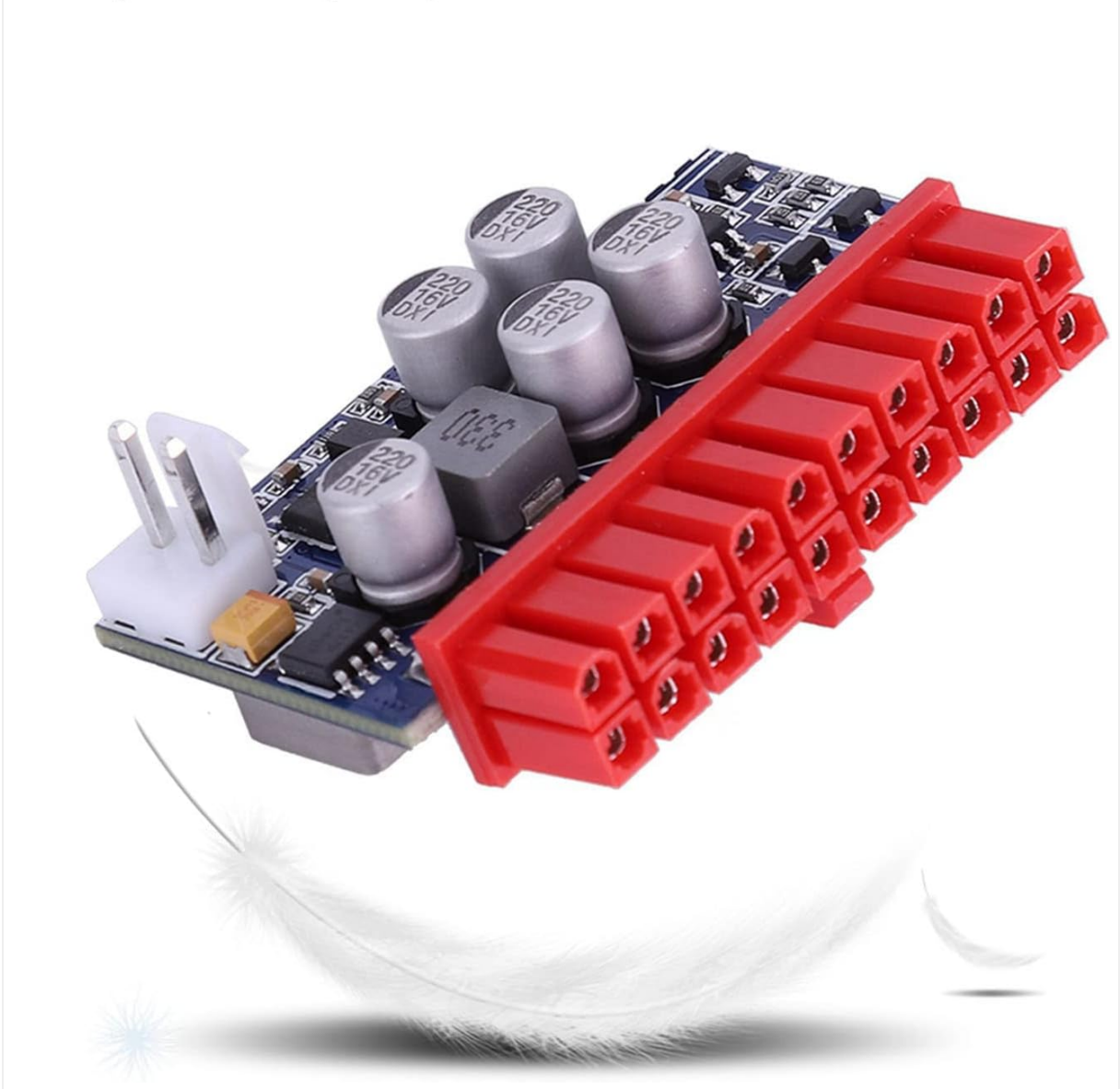


Image 4: Compact design makes the module suitable for mini-ITX and 1U cases.

3.2 Package Contents

- 1 x ASHATA 90W DC-ATX Power Module

4. SPECIFICATIONS

Feature	Specification
Model Number	ASHATAni8c7fy1wd
Input Voltage Range	12VDC \pm 5%
Output Power	90W
Work Efficiency	\geq 90%
Dimensions (L x W x H)	Approx. 35 x 47 x 12 mm (1.3 x 1.8 x 0.4 inches)
Item Weight	2.39 ounces

Feature	Specification
Working Temperature/Humidity	0°C to 55°C / 45% - 75%
Storage Temperature/Humidity	-40°C to +70°C / 10% - 90%
Compatible Devices	Personal Computer
Connector Type	ATX
Form Factor	ATX
Cooling Method	Air (Fanless)
Power Supply Design	Internal

4.1 Output Characteristics

Output Voltage	Minimum (V)	Maximum (V)	Ripple Wave (mV)	Standby Current Unloading	Maximum Load
+3.30V	+3.14	+3.47	50MAX	0	4.0
+5.00VSB	+4.75	+5.25	50MAX	0.1	2.0
+5.00V	+4.75	+5.25	50MAX	0	4.0
+12.00V	+11.40	+12.60	120MAX	0	4.0
-12.00V	-10.80	-12.60	120MAX	0	0.05

5. SETUP AND INSTALLATION

Follow these steps to properly install your ASHATA 90W DC-ATX Power Module:

- 1. Prepare Your System:** Ensure your computer system is powered off and disconnected from any power source.
- 2. Mount the Module:** Securely mount the ASHATA power module within your computer chassis, typically near the motherboard.
- 3. Connect to Motherboard:** Connect the main 20-pin ATX connector from the power module to the corresponding port on your motherboard.
- 4. Connect Peripherals:** Connect the 4-pin Molex and SATA power connectors to your storage drives (HDDs/SSDs) and other peripherals as required by your system.
- 5. Connect AUX-12V:** If your motherboard or specific components require it, connect the AUX-12V connector.
- 6. Provide DC Input:** Connect a stable 12V DC power source (external power adapter, not included) to the DC input port of the power module. Ensure the DC input cable is securely connected.
- 7. Verify Connections:** Double-check all connections to ensure they are firm and correctly seated.

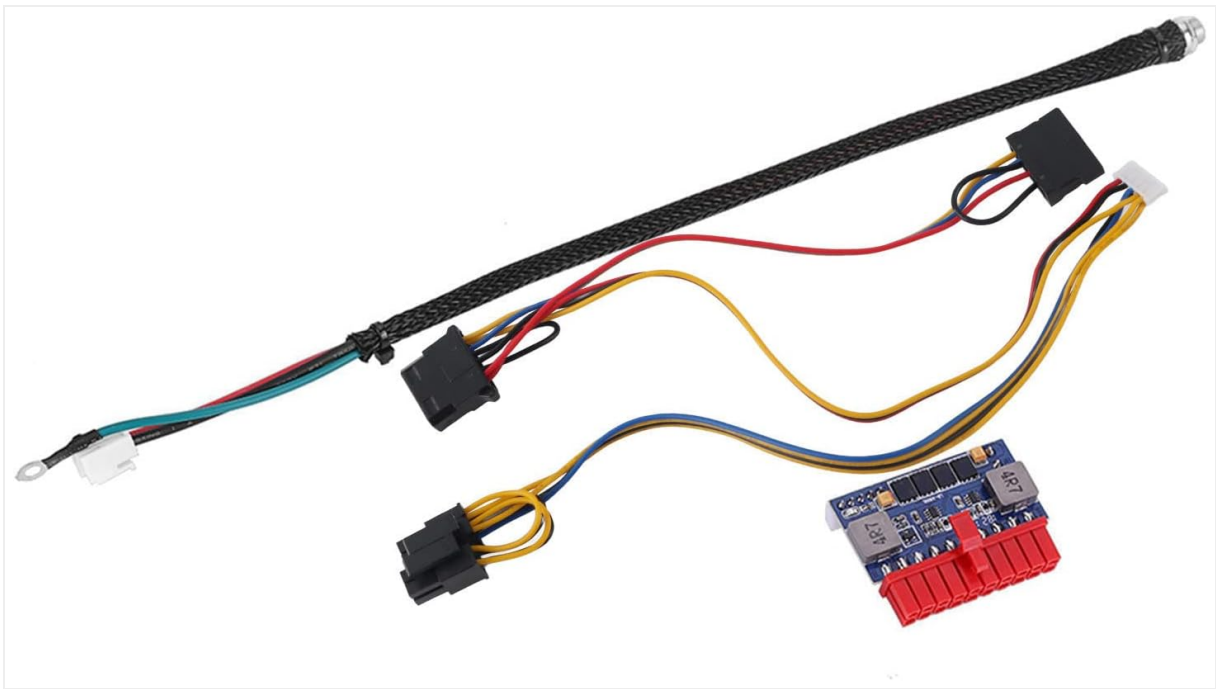


Image 5: Connection points on the ASHATA 90W DC-ATX Power Module.

6. OPERATING INSTRUCTIONS

Once the power module is correctly installed and all connections are secure:

1. Connect your external 12V DC power adapter to a wall outlet.
2. The system should power on automatically or can be powered on via the system's power button, depending on your motherboard's configuration.
3. To power off the system, use the operating system's shutdown function or the system's power button.

7. MAINTENANCE

The ASHATA 90W DC-ATX Power Module is designed for low maintenance. To ensure optimal performance and longevity:

- **Keep Clean:** Periodically inspect the module and surrounding area for dust accumulation. Use compressed air to gently remove dust.
- **Ensure Airflow:** Although fanless, adequate airflow within the chassis is important to dissipate heat. Ensure no obstructions block air circulation around the module.
- **Avoid Overloading:** Do not exceed the maximum 90W output power. Overloading can lead to instability or damage.

8. TROUBLESHOOTING

If you encounter issues with your power module, refer to the following troubleshooting tips:

- **No Power to System:**
 - Verify that the external 12V DC power adapter is connected and receiving power from the wall outlet.
 - Check all cable connections between the power module, motherboard, and peripherals for secure seating.
 - Ensure the 12V DC input cable to the module is firmly connected.

- **System Instability or Unexpected Shutdowns:**

- Confirm that the total power consumption of your components does not exceed the module's 90W capacity.
- Check for proper ventilation within the chassis to prevent overheating.
- Verify that the input 12V DC power source is stable and provides sufficient current.

- **Peripheral Devices Not Functioning:**

- Ensure the 4-pin Molex and SATA power connectors are correctly attached to the respective devices.
- Check the power requirements of the peripheral devices.

9. WARRANTY AND SUPPORT

For technical assistance, product support, or warranty inquiries regarding your ASHATA 90W DC-ATX Power Module, please contact ASHATA customer service through the retailer where the product was purchased or visit the official ASHATA website for contact information.