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ASHATA ASHATA Power Supply Tester

ASHATA Computer PC Power Supply Tester User Manual

Model: ASHATA Power Supply Tester
Brand: ASHATA

1. Introduction

This manual provides detailed instructions for the ASHATA Computer PC Power Supply Tester. This device is designed to quickly and accurately assess the operational status of various computer power supplies, including ATX, BTX, ITX, TFX, PCI E, SATA, and HDD connections. Featuring an LCD display for precise voltage readings and an automatic buzzer alarm for fault detection, it simplifies power supply diagnostics.

2. Safety Information

- Always connect the power supply connectors to the tester**before** powering on the power supply unit.
- Ensure all connections are secure to prevent inaccurate readings or potential damage.
- Do not attempt to disassemble or modify the tester.
- Keep the device away from moisture and extreme temperatures.

3. Product Overview

3.1 Components

The ASHATA Power Supply Tester features a compact design with multiple connection ports and an integrated LCD display.



Image: The ASHATA Power Supply Tester displaying its various interface ports, including 24-pin, CPU/Video Card/Floppy Drive, Large 4-pin, and SATA sockets.



Image: A close-up view of the ASHATA Power Supply Tester, highlighting its LCD screen and the array of power connectors it supports.

3.2 Key Features

- **LCD Display:** Provides intuitive and accurate voltage readings (± 0.01V).
- **Automatic Alarm:** A buzzer sounds when voltage values are outside the normal range.
- **Comprehensive Compatibility:** Supports 20/24 Pin ATX, 4/6/8 Pin CPU/PCI-E, SATA, and IDE/HDD power connectors.
- **Compact Design:** Small and practical for easy handling and storage.



Image: The ASHATA Power Supply Tester resting in the palm of a hand, illustrating its compact and portable design.

4. Setup Instructions

To begin testing your power supply, follow these steps:

1. Ensure the power supply unit is turned off and unplugged from the wall outlet.
2. Connect the main 20/24-pin ATX connector from your power supply to the corresponding port on the tester.
3. For comprehensive testing, also connect the CPU 4/8-pin connector to the tester.
4. You may also connect other peripheral connectors such as PCI-E (6/8-pin), SATA, or IDE/HDD to their respective ports on the tester.
5. Once all desired connectors are securely attached to the tester, plug in and power on your power supply unit. The tester will automatically begin displaying voltage readings.



Image: The ASHATA Power Supply Tester with multiple power supply cables connected, ready for operation.

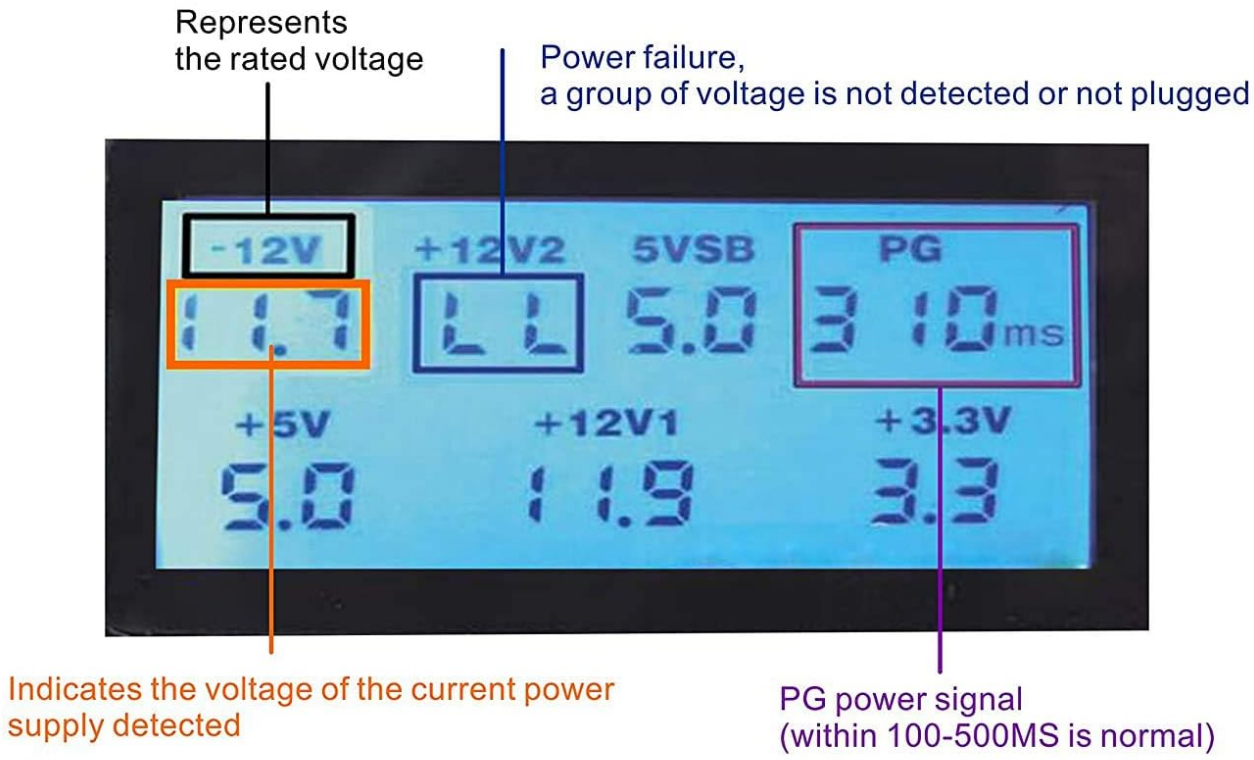
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Video: An overview demonstrating the physical aspects and connection points of the ASHATA Power Supply Tester, useful for initial setup.

5. Operating Instructions

5.1 Reading the LCD Display

Upon powering on the connected power supply, the LCD display will illuminate and show various voltage values and the Power Good (PG) signal. Each value represents a specific rail of the power supply.



ATX Power Supply Voltage Parameters of Each Group Requirement

The output voltage	Range	Minimum value	Standard value	Maximum value
+12V1DC	±5%	+11.40	+12.00	+12.60
+12V2DC	±5%	+11.40	+12.00	+12.60
+5VDC	±5%	+4.75	+5.00	+5.25
+3.3VDC	±5%	+3.14	+3.30	+3.47
-12VDC	±10%	-10.80	-12	-13.20
+5VSB	5%	+4,75	+5	+5.25

Image: A detailed explanation of the LCD screen, indicating rated voltage, detected voltage, and the PG power signal. Includes a table of ATX power supply voltage parameters.

- **Voltage Readings:** The display shows voltages for +12V, -12V, +5V, +3.3V, +5VSB (Standby Voltage), and +12V2 (if applicable).
- **PG (Power Good) Signal:** This value indicates the time it takes for the power supply to stabilize its output voltages after being turned on. A normal PG value is typically between 100ms and 500ms.

5.2 Interpreting Alarms

The tester is equipped with an automatic alarm system to alert you to potential issues:

- **Buzzer Sound:** If any voltage reading is outside the acceptable range or if the PG value is abnormal, the tester will emit a continuous buzzer sound.
- **Flashing Values:** The specific voltage value or PG value that is out of range will flash on the LCD display, indicating the problematic rail.
- **"LL" Display:** If the display shows "LL" for a voltage rail, it indicates a power failure for that group of voltage or that

the connector is not properly plugged in.



Image: The ASHATA Power Supply Tester displaying an alarm icon, signifying a detected fault or abnormal condition.

6. Troubleshooting

If the tester indicates a fault, consider the following:

- **Buzzer Alarm / Flashing Values:** This indicates a voltage output or PG signal outside the normal operating parameters. Refer to the Specifications section for acceptable voltage ranges. A consistent alarm suggests a faulty power supply.
- **"LL" on Display:** This means the voltage for that specific rail is not detected or the connector is not properly inserted. Ensure all connectors are firmly seated. For P4/P6/P8/SATA/IDE connectors, note that their voltage values will only display on the LCD if the main 20/24-pin ATX connector is also connected. Otherwise, they may only show a light indicator.
- **No Display:** Ensure the power supply is properly connected and powered on. Check the power supply itself for any signs of failure.

7. Specifications

7.1 General Specifications

- **Product Dimensions:** 3.94 x 1.97 x 0.79 inches
- **Item Weight:** 2.82 ounces (0.08 Kilograms)
- **Brand:** ASHATA
- **Model Name:** ASHATA Power Supply Tester
- **Compatible Devices:** Personal Computer Power Supplies
- **Connector Types:** ATX, PCI E, SATA
- **Form Factor:** ATX
- **Cooling Method:** Air

7.2 ATX Power Supply Voltage Parameters

The following table outlines the required voltage ranges for a standard ATX power supply. Readings outside these ranges indicate a potential issue.

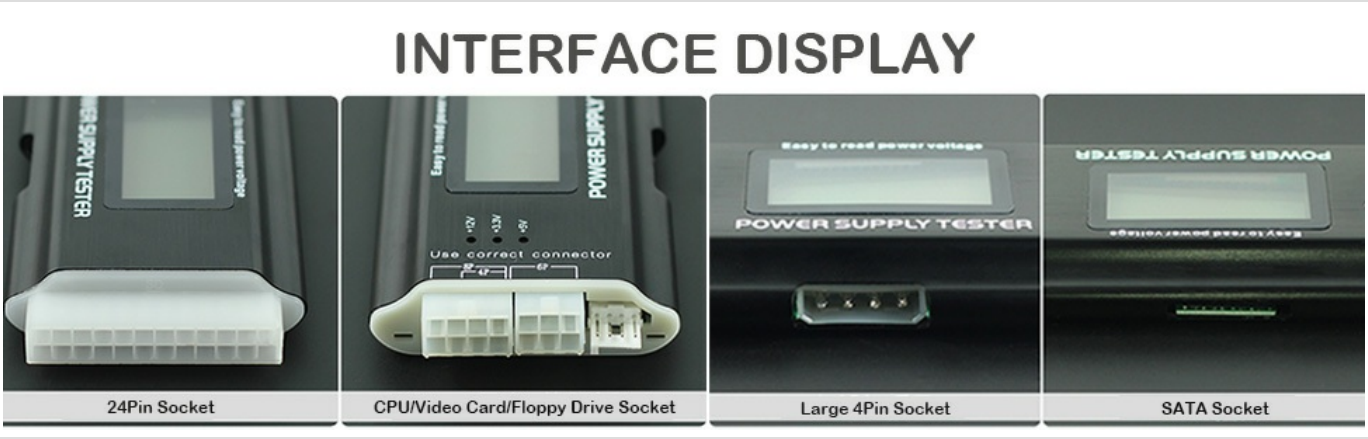


Image: A table detailing the output voltage, acceptable range, minimum, standard, and maximum values for various ATX power supply rails.

ATX Power Supply Voltage Parameters

The output voltage	Range	Minimum value	Standard value	Maximum value
+12V1DC	±5%	+11.40	+12.00	+12.60
+12V2DC	±5%	+11.40	+12.00	+12.60
+5VDC	±5%	+4.75	+5.00	+5.25
+3.3VDC	±5%	+3.14	+3.30	+3.47
-12VDC	±10%	-10.80	-12	-13.20
+5VSB	5%	+4.75	+5	+5.25

8. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact ASHATA customer service through the retailer where the product was purchased. Keep your purchase receipt for warranty claims.

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