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LEAGY 20/24 4/6/8 PIN Power Supply Tester

LEAGY LCD Computer PC Power Supply Tester User Manual

Model: 20/24 4/6/8 PIN Power Supply Tester

1. Introduction and Overview

The LEAGY LCD Computer PC Power Supply Tester is an essential tool designed for accurately testing the voltage levels of various computer power supply connectors. It features an integrated 1.8-inch LCD screen that displays real-time voltage readings, allowing users to quickly identify potential power supply issues and prevent damage to sensitive computer components like motherboards.

This device supports a wide range of connectors including 20-pin, 24-pin ATX, 4-pin P4, 8-pin P8, 6-pin PCI-E, SATA, Molex/Xeco, and floppy drive power connectors. It provides automatic alarm functions for out-of-range voltages and non-detected signals, making it a reliable diagnostic tool for both professionals and enthusiasts.

2. Key Features

- **Comprehensive Compatibility:** Supports 20Pin, 24Pin ATX, SATA, P4 4Pin, 8Pin, PCI-E 6Pin, Molex/Xeco, and Floppy power connectors.
- **LCD Display:** 1.8-inch LCD screen for clear, real-time display of voltage values (+3.3V, -12V, +5VSB, +12V1, +12V2, +5V) and PG signal.
- **Automatic Alarm System:** Buzzer emits a warning sound for voltage signals not detected or values exceeding normal range, with corresponding voltage values or PG status blinking on the screen.
- **Durable Construction:** Made with aluminum alloy material for enhanced durability.
- **Ease of Use:** Simple plug-and-play operation for quick and intuitive power supply testing.

3. Product Components and Interfaces



Figure 3.1: Front view of the LEAGY Power Supply Tester showing the LCD screen and main 20/24-pin ATX connector. The screen displays voltage readings for various rails.



Figure 3.2: Side view of the tester highlighting the Power Supply 24P / 20 + 4P interface, CPU Interface (4P / 8P), Graphics Interface (6P), and Floppy drive interface.



Figure 3.3: View of the tester indicating the SATA interface.



Figure 3.4: View of the tester indicating the IDE (large 4P) interface.

4. Setup and Operation

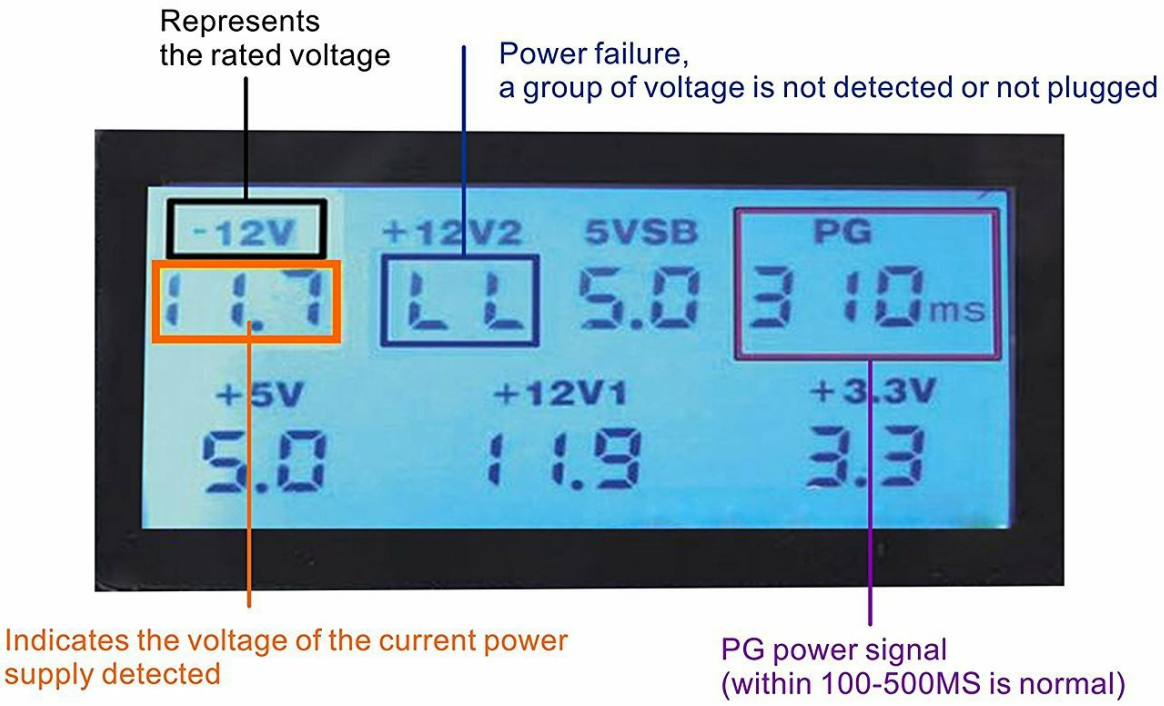
4.1 Initial Setup

The LEAGY Power Supply Tester is designed for immediate use. No complex setup or software installation is required. Ensure the power supply you intend to test is disconnected from any computer components before proceeding.

4.2 Operating Instructions

1. **Connect the Power Supply:** Plug the 24-pin ATX connector from the power supply into the corresponding 24-pin port on the tester. Additionally, connect any other power supply cables you wish to test (e.g., P4, P6, P8, SATA, IDE, Floppy) into their respective ports on the tester.
2. **Power On:** Turn on the power supply. The tester will emit a "bit" sound twice, indicating startup.
3. **Read Results:** Observe the LCD screen. If the values for each voltage group are stable and not flashing, it indicates that the input power supply is operating normally within acceptable parameters.

Description of the LCD screen



ATX power supply voltage parameters of each group requirements

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

Figure 4.1: Detailed explanation of the LCD screen display, showing rated voltage, detected voltage, and PG signal. Below the diagram is a table outlining the ATX power supply voltage parameters and their acceptable ranges.

The LCD screen displays the following voltage readings and status indicators:

- **Voltage Readings:** +12V, -12V, +5V, +3.3V, +5VSB, +12V1, +12V2.
- **PG (Power Good) Signal:** Displays the PG signal in milliseconds (ms). A normal PG signal is typically within 100-500ms.
- **Status Indicators:** If a voltage is out of range or a connection is not detected, the corresponding value will flash, and an audible alarm will sound.

5. Troubleshooting

The LEAGY Power Supply Tester is designed to provide clear indications of power supply issues. Refer to the following points if you encounter problems during testing:

- **Continuous "Didi" Warning Sound and Flashing Values:** If the buzzer emits a long, continuous "Didi" warning

sound and a specific voltage value or the PG status blinks on the screen, it indicates a problem with the power supply.

    - **Flashing Voltage Value:** The detected voltage for that rail is either not present (e.g., a cable is not connected to the tester, or the power supply rail is dead) or it exceeds the normal operating range.
    - **Flashing PG Status:** The Power Good signal is out of the acceptable range (typically 100-500ms), indicating a potential issue with the power supply's startup or stability.

- **No Display/No Power:** Ensure the power supply is properly connected to the tester and is receiving power from the wall outlet. Verify the power supply's main switch is in the "On" position.
- **Loose Connections:** Ensure all power supply connectors are firmly seated in their respective ports on the tester. A loose connection can lead to inaccurate readings or non-detection of a voltage rail.

In case of a detected fault, it is recommended to replace or further diagnose the power supply. Do not connect a faulty power supply to computer components.

6. Specifications

Parameter	Value
Input Voltage	20 / 40PIN (ATX power supply)
Voltage Detection	+12V, -12V, +5V, -5V, +3.3V, 5VSB, 12VPG
Supported Ports	Floppy, HDD, CDROM, SATA, 4pin (P4), 8pin (Dual-CPU), 6pin (PCI-E)
Display	1.8-inch LCD Screen
Material	Aluminum alloy
Item Weight	0.01 Kilograms (10 g)
Package Dimensions	21.5 x 10.1 x 2.1 cm
Manufacturer	LEAGY
UPC	763250840504

6.1 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

7. Maintenance

The LEAGY Power Supply Tester requires minimal maintenance. To ensure its longevity and accurate performance:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care to avoid dropping or impacting it, which could damage the internal components or the LCD screen.

8. Warranty and Support

8.1 Warranty Information

Specific warranty details for the LEAGY Power Supply Tester are not provided in this manual. Please refer to the product packaging or the point of purchase for any applicable warranty terms and conditions.

8.2 Customer Support

For any questions, technical assistance, or concerns regarding your LEAGY Power Supply Tester, please contact LEAGY customer service. We are committed to providing quality products and customer satisfaction.
Please have your product model and any relevant purchase information ready when contacting support.

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