XINNIKESI FNB38

FNB38 USB Tester User Manual

Brand: XINNIKESI | **Model:** FNB38

1. Product Overview

The FNB38 Current and Voltages Meter is a versatile USB tester designed to measure and monitor various electrical parameters of USB devices. It supports fast charging protocols such as QC4+, PD3.0, and 2.0, making it an essential tool for electronics enthusiasts, engineers, and repair technicians. Equipped with an easy-to-read LCD screen, it provides accurate current and voltage detection for smartphone charging adapters and computer USB ports.



Figure 1: Front view of the FNB38 USB Tester, showcasing its compact design and LCD screen.

2. Key Features

- **Comprehensive Measurement:** Accurately measures current and voltages for various USB devices.
- **Fast Charging Protocol Support:** Compatible with QC4+, PD3.0, and 2.0 fast charging protocols.

- **Clear LCD Display:** Features an easy-to-read LCD screen for convenient data monitoring.
- **Multiple Interfaces:** Supports various USB interfaces for broad compatibility.
- **Durable Construction:** Built with metal components for enhanced durability and frequent use.
- **Versatile Application:** Ideal for smartphone charging adapter and computer USB port testing.



Figure 2: The FNB38 USB Tester features a high-definition color screen for clear data display.

3. Device Layout and Connections

Familiarize yourself with the various ports and buttons on the FNB38 USB Tester to ensure proper usage.

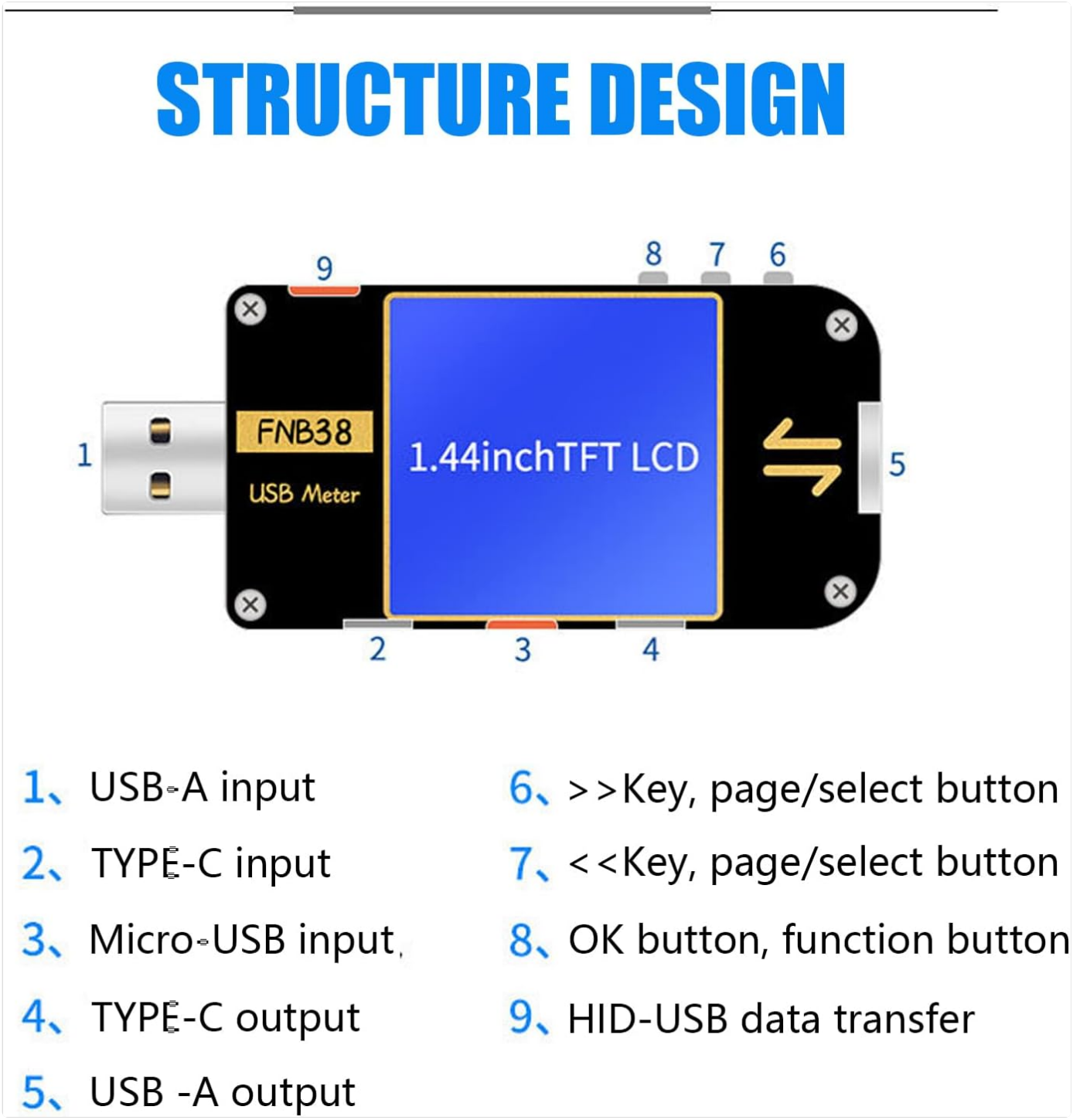


Figure 3: Detailed diagram of the FNB38 USB Tester's structure and design.

1. **USB-A Input:** Standard USB-A male connector for power input.
2. **TYPE-C Input:** USB Type-C port for power input.
3. **Micro-USB Input:** Micro-USB port for power input.
4. **TYPE-C Output:** USB Type-C port for power output to the device under test.
5. **USB-A Output:** Standard USB-A female port for power output to the device under test.
6. **>> Key (Page/Select Button):** Used to navigate through display pages or select options.
7. **<< Key (Page/Select Button):** Used to navigate through display pages or select options.
8. **OK Button (Function Button):** Confirms selections or activates functions.
9. **HID-USB Data Transfer:** Port for connecting to a computer for data logging or firmware updates.

4. Operating Instructions

To begin using your FNB38 USB Tester, connect it between your power source (e.g., charger, power bank) and the device you wish to test (e.g., smartphone, tablet). The device will automatically power on and display real-time data.

4.1 Navigating the Display

The FNB38 features multiple display interfaces, providing various data points and functions. Use the ">>" and "<<" keys to cycle through different screens.

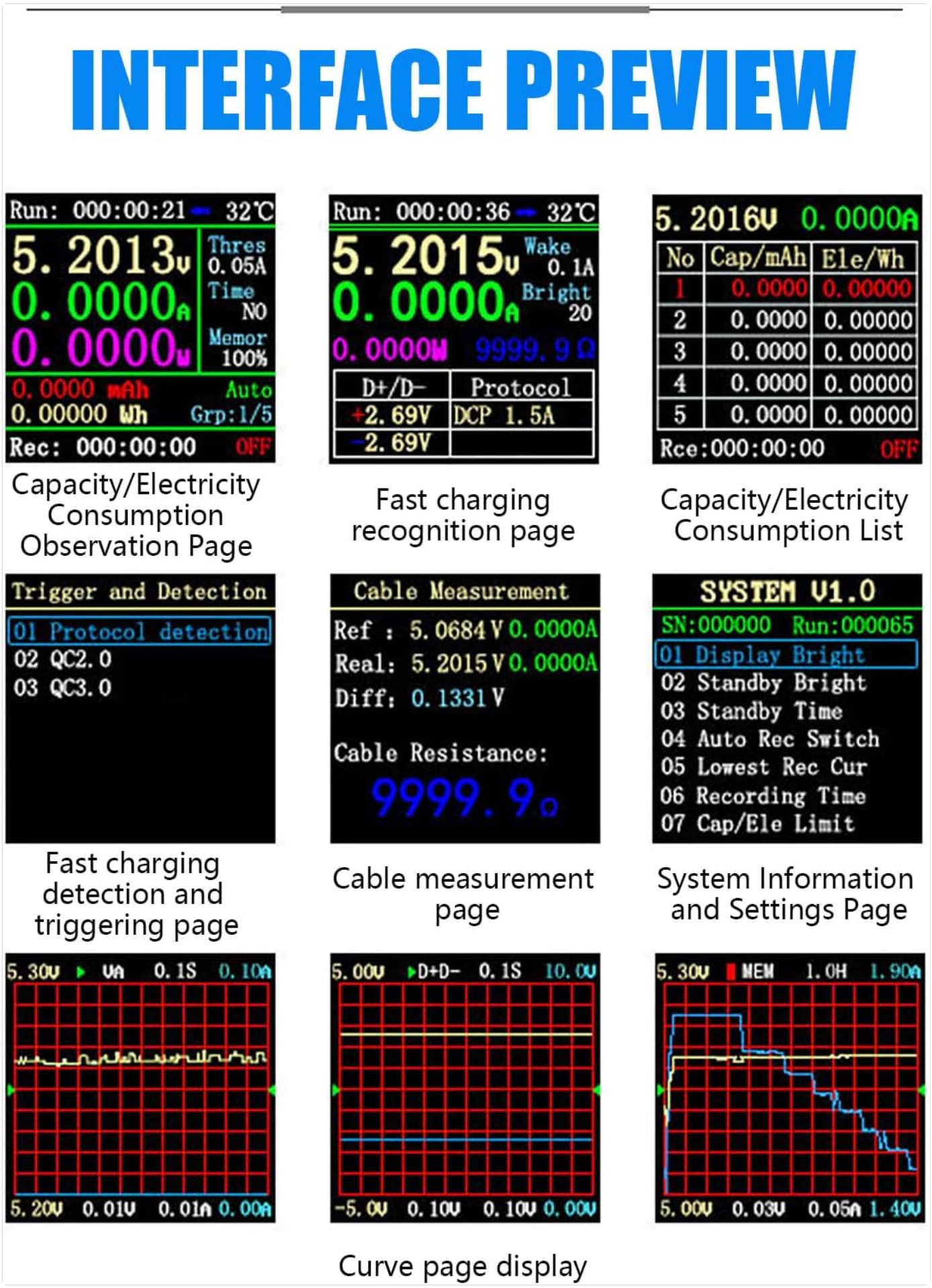


Figure 4: Examples of various interface displays on the FNB38 USB Tester.

- **Capacity/Electricity Consumption Page:** Displays accumulated capacity (mAh) and energy (mWh).
- **Fast Charging Recognition Page:** Shows detected fast charging protocols (e.g., PD, QC).

- **Capacity/Electricity Consumption List:** A detailed list of recorded charge/discharge cycles.
- **Fast Charging Detection and Triggering Page:** Allows triggering specific fast charge protocols for testing.
- **Cable Measurement Page:** Measures the resistance of the connected USB cable.
- **System Information and Settings Page:** Access device information and configure settings like display brightness.
- **Curve Page:** Displays real-time voltage, current, or power curves over time.

4.2 Using the OK Button

The "OK" button is used to confirm selections, enter sub-menus, or activate specific functions depending on the current display page. Refer to the on-screen prompts for specific actions.

5. Maintenance

To ensure the longevity and accurate performance of your FNB38 USB Tester, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** While the device features a metal construction for durability, avoid dropping it or subjecting it to severe impacts.
- **Connectivity:** Always insert and remove USB connectors carefully to prevent damage to the ports.

6. Troubleshooting

If you encounter issues with your FNB38 USB Tester, refer to the following common problems and solutions:

- **Device Not Powering On:**
  - Ensure the input source (charger, power bank) is providing power.
  - Check that the USB connections are secure and fully inserted.
  - Try a different power source or USB cable.
- **Inaccurate Readings:**
  - Ensure all connections are stable and free from loose contacts.
  - Test with a known good power source and load to verify.
  - Check for any physical damage to the ports or the device itself.
- **Screen Not Responding/Frozen:**
  - Disconnect and reconnect the device to reset it.
  - Ensure the device is not exposed to extreme temperatures.
- **Fast Charging Protocol Not Detected:**
  - Verify that both the charger and the device being charged support the specific fast charging protocol.
  - Ensure you are using a compatible cable that supports fast charging.

7. Specifications

Detailed technical specifications for the FNB38 USB Tester:

Parameter	Value
Component Material	Metal
Input Voltage	4-24V
Input Current	0-5A
Input Power	0-120W
Equivalent Internal Resistance of Load	0-9999.9Ω
Dimensions (Approx.)	69mm x 30mm (2.72in x 1.18in)
ASIN	B0DXNKWC7K
Manufacturer	XINNIKESI
Country of Origin	China



Figure 5: Approximate dimensions of the FNB38 USB Tester.

8. Warranty Information

Specific warranty details for the FNB38 USB Tester are not provided in the product information. Please refer to the seller's return policy or contact the manufacturer, XINNIKESI, for warranty inquiries. Typically, products purchased through Amazon.com are subject to a standard return policy, which may include a refund or replacement within a specified period (e.g., 30 days from purchase).

9. Customer Support

For technical assistance, troubleshooting beyond this manual, or general inquiries, please contact the seller or manufacturer:

- **Manufacturer:** XINNIKESI
- **Seller:** hubeishengdedianzishangwuyouxiangongsi (as per Amazon listing)
- Refer to your purchase documentation or the Amazon product page for direct contact methods.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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