

FNIRSI-FNB58 USB Tester

FNIRSI™

TECHNOLOGICAL INNOVATION FAST CHARGING ERA

PD3.1 28V EPR AVS

240W PD Cable Detection

Explore the world of fast charging with FNIRSI

USB TESTER

Detection Protocol

Detection Power



TYPE-C & USB INTERFACE HD LARGE SCREEN DISPLAY DATA AT A GLANCE

Equipped with a 2.0-inch LCD high-definition display. The measurement data is comprehensive and accurate. Equipped with 5P high current USB-A. The Type-C input and output interface is made of 24P pins made of fine copper. Let you become a technology expert in the field of fast charging.

- | | | |
|-----------------|----------------|-----------------|
| ① USB-A input | ④ Back button | ⑦ Micro input |
| ② PC interface | ⑤ USB-A output | ⑧ Type-C output |
| ③ Function keys | ⑥ Type-C input | ⑨ PD switch |



USB TESTER

Detection Protocol

Detection Power

SUPER COMPATIBILITY

ULTRA-PRECISE DATA DETECTION

0.0001 low resolution. Real-time detection of subtle changes in voltage, current and power while charging.

COMPATIBLE

Huawei super fast charge	Xiaomi super fast charge	OPPO Super Flash Charge
Apple PD fast charge	Samsung Fast Charge	

PLAY WITH FAST CHARGING TECHNOLOGY

AUTOMATIC PROTOCOL DETECTION

PROTOCOL DECOY

PD2.0、3.0, PPS, QC2.0、3.0, FCP、SCP, AFC, PE, DASH VOOC, SuperVOOC....



ARUTOMATIC
DETECTION

HIGH-SPEED RIPPLE DETECTION QUICKLY JUDGE INFERIOR CHARGERS

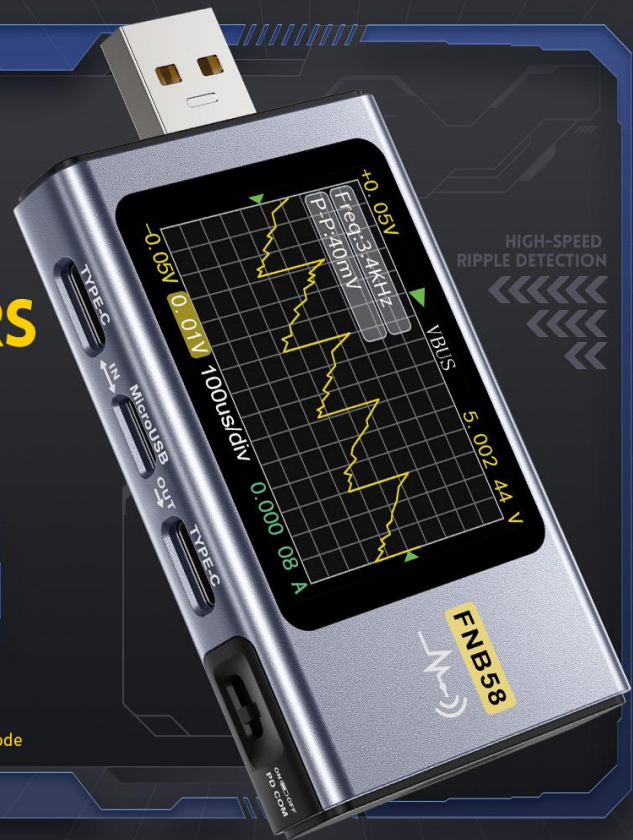
It is not recommended to charge the phone with a poor quality charger, which will shorten the life of the battery



<30mv	Excellent
30-120mv	Normal
120-200mv	High
>200mv	Inferior

It can quickly judge the output quality of the charging head by the size of the VPP ripple value

Note: When measuring ripple, it is recommended that the charger be tested with a constant current load
When no-load, the charger is generally in a low frequency power saving mode



HIGH-SPEED
RIPPLE DETECTION



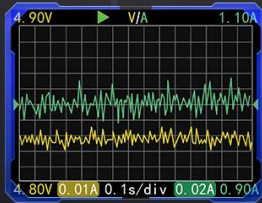
EXPERIENCE
UPGRADE

HUMAN-COMPUTER INTERACTION

SIMPLE OPERATION LOGIC LIKE EATING

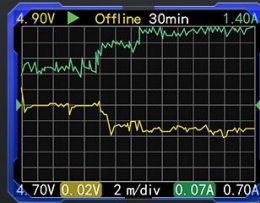
Simple display interface;Independent
function menu;Humanized operation.

FOUR FUNCTIONAL CURVE DISPLAY



REAL-TIME VOLTAGE AND CURRENT CURVE

View charging curve changes in real time. Abnormal charging is found immediately.



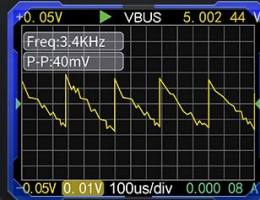
OFFLINE CURVE RECORDING

Supports up to 9 hours offline voltage and current curve recording. Show up during charging.



D+D- VOLTAGE CURVE

Charging protocol changes. Master in real time.



HIGH-SPEED POWER SUPPLY RIPPLE MEASUREMENT

Charger Ripple Measurement. Throw inferior chargers in the trash.

CABLE DETECTION JUST USE FNB58

PD E-MARKER CABLE DETECTION

Read data information of CC line with E-Marker chip

USB-C E-Marker
0.391 60 v 0.000 00 A →
0.000 00 w 1.527V 1.459V
Vendor ID: 0x0000
Type: Passive
Speed: USB 3.0 Gen2
Length: 0-1 m
Max Vol: 20V
Cur: 5A
Hardware: 0x0000 Firmware: 0x0000

DASH CABLE DETECTION

Read DASH cable chip related data

Read DASH Cable

ROM 7Bytes + CRC 1Byte:
09 17 FD BB 50 00 00 26
ADDR 0x20 - 0x27:
26 00 00 50 BB FD 17 09

Dash cable found!
Verified!

CABLE INTERNAL RESISTANCE MEASUREMENT

With constant current load two-step fast measurement of wire resistance

Cable Resistance Detection
5.009 25 v 0.000 00 A →
0.000 00 w 0.600V 0.600V
Reference: 5.009 25V 0.000 00A
Result: NULL
Real time: 5.009 25V 0.000 00A

10 GROUPS OF ENERGY RECORDING BATTERY CAPACITY CALCULATION

Support 10 sets of charge and discharge energy data records. Built-in battery capacity calculation formula. The battery capacity can be quickly calculated from the recorded data.



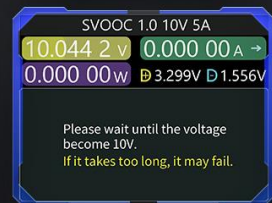
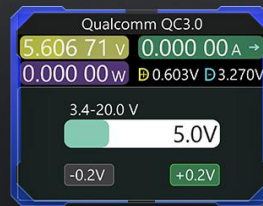
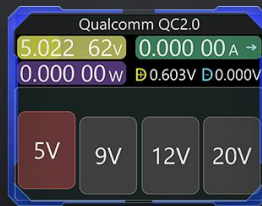
EXPERIENCE
UPGRADE

BLUETOOTH APP AND HOST COMPUTER

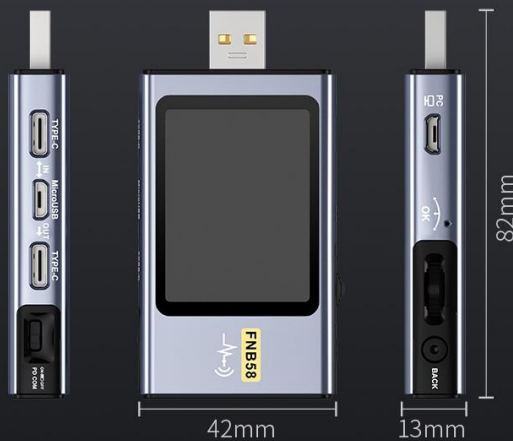
Driver-free installation, Synchronous Data Efficient & Convenient; Bluetooth APP overvoltage and overcurrent alarm.



PROTOCOL TRIGGER INTERFACE



PRODUCT PARAMETERS



INDEX	RANGE	RESOLUTION	ACCURACY
Monitor voltage	4~28V	0.00001V	±(0.2%+2)
Monitor current	0~7A	0.00001A	±(0.5%+2)
Monitor power	0~140W	0.00001W	±(0.5%+2)
Load Equivalent Internal Resistance	0~9999.9Ω	0.0001Ω	±(0.5%+2)
D+/D- voltage	0~3.3V	0.001V	±(1.0%+2)
Device Temperature	°C	1°C	±(1.2%+3)
	°F	1°F	±(1.2%+4)
Capacity	0~9999.99Ah	0.00001Ah	
Energy used	0~9999.99Wh	0.00001Wh	
Cable internal resistance	0~9999.9Ω	0.0001Ω	
Equipment runtime	99 days 23:59:59	1s	
Record time	99 days 23:59:59	1s	

*The various data mentioned on this page.Unless otherwise specified, all are from FNIRSI laboratory.Due to the changes of considerable environmental factors in the actual use process, the data will have different errors.

*Product dimensions are measured by hand.There are slight errors in the data.Please refer to the actual product.