

Product Features

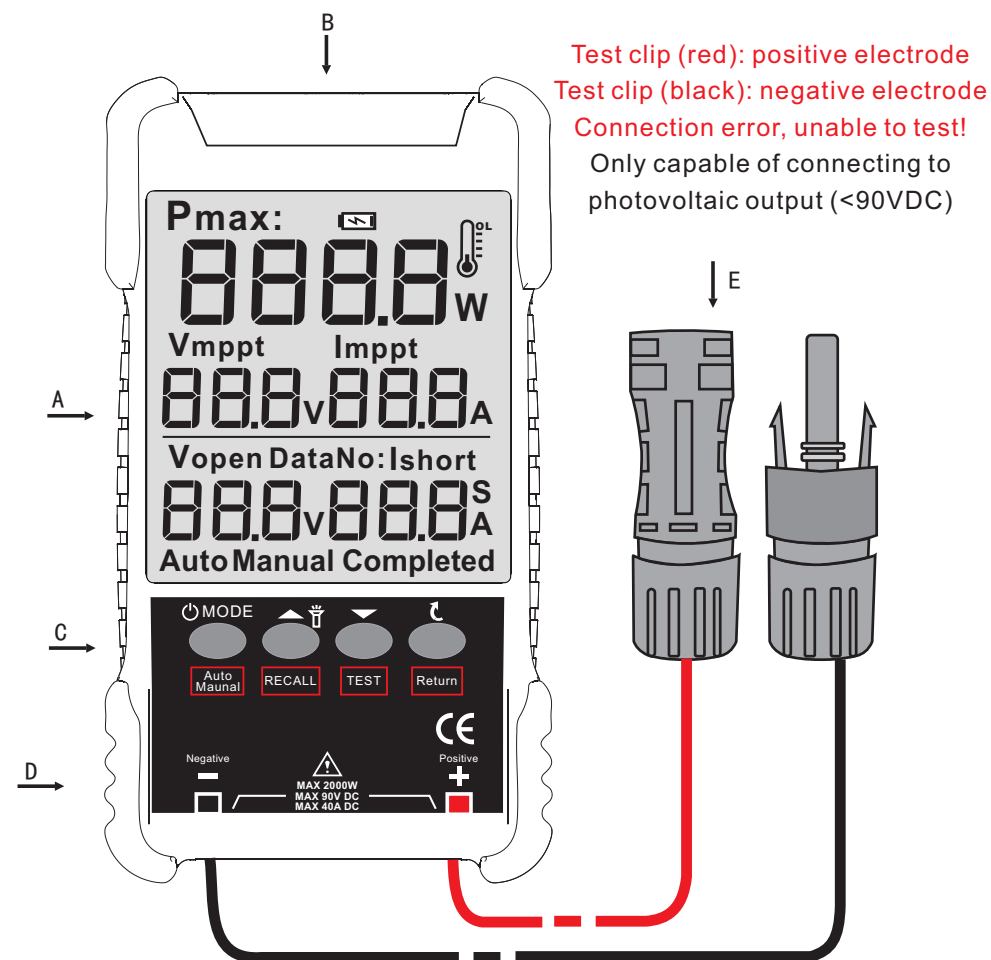
- 1: MPPT high power measurement, TPR protection and anti-drop design
- 2: Test data automatically saved design
- 3: Large screen display 55*58mm, various measurement results are displayed on one screen
- 4: Overvoltage/overcurrent/reverse connection/overtemperature comprehensive protection
- 5: Wider power measurement range, minimum power 3W, minimum voltage 3V
- 6: Large capacity 1250mA.H rechargeable lithium battery

Introduction

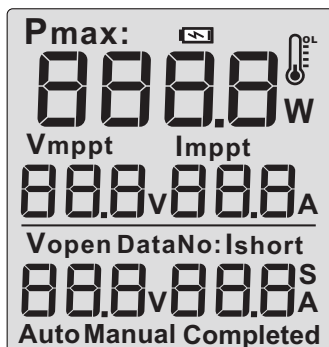
This photovoltaic module tester is a highly efficient and portable device specifically designed for on-site inspection. Its core functions include maximum power point tracking (MPPT), precise measurement of key parameters such as Pmax, Voc, and Isc (accuracy $\pm 1.5\%$), and support for testing high-power modules up to 2000W. Its highlights include portability and multiple safety protections (overvoltage/overcurrent/reverse polarity/overtemperature protection + CE certification). It is suitable for photovoltaic module production, acceptance, and operation and maintenance scenarios, enabling rapid fault diagnosis and improving inspection efficiency. The product is equipped with a 1250mAh rechargeable lithium battery, suitable for long-term use in industrial environments.

Product Introduction

- A. Display
- B. TYPE-C USB charging port/LED
- C. Operation buttons
- D. Protective case
- E. Solar panel connection port



LCD display



Overpower prompt

Pmax:
0L W

Data record reading prompt

DataNo:
20



The internal temperature of the product is too high

- Pmax:** Maximum measured power value: the maximum power generated under the current light intensity
- Vmppt** Maximum power point voltage: the maximum power generation voltage under the current light intensity
- Imppt** Maximum power point current: the maximum power generation current under the current light intensity
- Vopen** Open circuit voltage: voltage at current light intensity without load
- Ishort** Short-circuit current: The current when the positive/negative panels of the photovoltaic panel are short-circuited
- Completed** Test completion prompt
- Auto** Automatic test mode
- Manual** Manual test mode

Data storage: The product will automatically record test results, with a maximum storage capacity of 30 entries

Operation buttons

MODE



Auto
Manual

Click: Switch between manual and automatic measurement modes
Press for 2 seconds: Power on/off



RECALL

Click: Read back data
press for 2 seconds: Turn on/off the flashlight



TEST

Click: Start Test



Return

Click: Return to normal function/Exit read back
Press for 2 seconds: Turn sound on/off

MPPT Maximum power point measurement

Power button: Long press for 2 seconds to turn on, and long press again for 2 seconds to turn off after it's turned on,

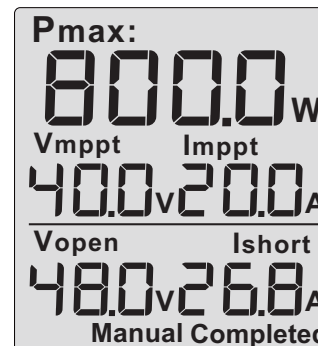
Mode button: Select automatic measurement mode (Auto)/manual measurement mode (Manual)

Automatic Measurement Mode (Auto): The product will automatically set a reasonable interval for measurement based on the measured power of the photovoltaic panel, and display the measurement results in real-time on the LCD. Each valid measurement result will be stored in the product (up to 30 sets, with data automatically overwriting)

Manual measurement mode (Manual):

TEST/▼ button: Click to initiate an MPPT measurement and receive a prompt indicating completion (Completed)

MPPT
Power value



Circuit open
Voltage value



MPPT
Current value



Circuit short
Current value



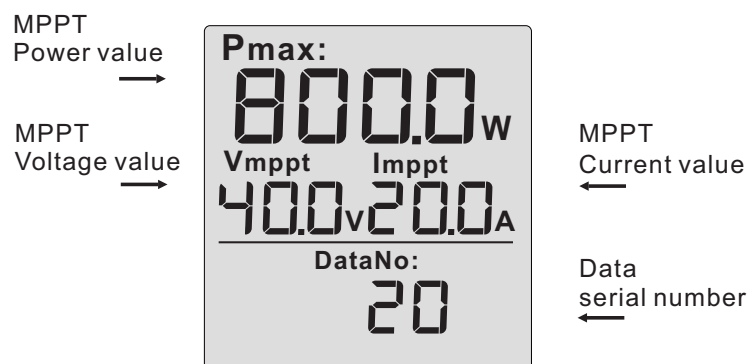
Data recall

The effective measurement results of the product will be automatically stored each time,

RECALL/▲ key: Upon first click, it enters the function of reading back measurement data, and the LCD displays "datano:"

When in data reading mode, press the **▲ key/▼ key** to switch between measurement records

When in data reading function, press the return key to exit this function
After turning on the device, press the **▲ and ▼ keys** simultaneously for 3 seconds, and the product will clear the stored data



FAQ

1. Unable to power on
Please connect the charger and fully charge the product before turning it on for operation;
2. Unable to test MPPT
A: Please check if the positive and negative connections are correct
B: Is the voltage beyond the testing range
C: Is the product temperature too high;
3. The MPPT result is on the lower side
A: Check whether the test line is installed in place and tightened securely;
B: The power of the photovoltaic panel is relatively low
C: The sun's light is dim;

Functions	
Solar Voltage	3~90.00V/±1.5%+5
Solar Current	0~40.00A/±1.5%+5
Solar MPPT power	0~2000.0W/±1%+5
Sampling point	200digit group
Data record	30
Display	LCD TN/55*58mm
Power	1250mAh rechargeable lithium battery (with protection circuit)
Interface	DB9
Protect	Over current (>1600WProtect) Over voltage (>90VProtect) Reverse polarity (P and N reverse connection Protect) over current (>40AProtect) over temperature (>55°CProtect)
Lighting	✓
OTHER	Automatic shutdown/ Low voltage detection
Working ENV	Temperature: 0~40°C/Humidity: 0~30°C:≤75%, 30~40°C:≤50%
Storage ENV	Temperature:-10~50°C / Humidity:≤50%
Size	140x80x30mm
Package	Color box/instruction manual/Solar test clip/tool kit
Optional Accessories	Solar MC4 test line/MC4 disassembly tool
Charging power	Charging with a charger of 5V/2A/10W or above (not included as standard)

*The above indicators are the best functional indicators
Test temperature: 23±2°C, humidity <70%