



MP0515A

12V Battery Tester/Analyzer

USER'S MANUAL



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Safety Information

For your own safety and safety of others, and to prevent damage to the equipment and vehicles, read this manual carefully before operating your tester.

The safety information presented below are the reminders to the operator to exercise with extreme care when using the device. Always follow BCI (Battery Council International) safety recommendations. Read, understand and follow all safety cautions and instructions in this manual.

- Operate the tester in a safe area. Keep it away from children.

Keep your clothing, hair, hands, tools and test equipments away from all motor hot parts and moving components.

- Battery Posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after operating.
- Store the tester properly after each use. Do not store it in the environment with high temperature or high humidity.

Product description



- ① **LCD Display** - shows menus, test results and operation tips.
- ② **ESC Button** - exits a screen and returns to previous screen.
- ③ **OK Button** - enters a selected option and go to next screen.
- ④ **Up & Down Buttons** - scroll up and down to menu options.
- ⑤ **Left & Right Buttons**- scroll left and right to menu options.
- ⑥ **Test Cable** - Connects the tester to battery for testing.

Specification

The MOTOPOWER MP0515A Battery Tester is designed to test all types of 12V lead acid batteries, including Regular Flooded, AGM Flat Plate, AGM Spial, Gel and EFB batteries and also 12V starting and charging system. It provides a quick, easy and affordable solution for technicians to check battery health and detects faults of starting and charging system.

- Display: 240*320 pixel LCD display
- Operating Temperature: -20 to 60°C
- Storage Temperature: -20 to 70°C
- Testing Range: 12V batteries/Charing/Starting system only (100-2000CCA)
- Support Language: English, Italian, French, German, Spanish, Portuguese, Polish, Russian & Chinese

Battery test

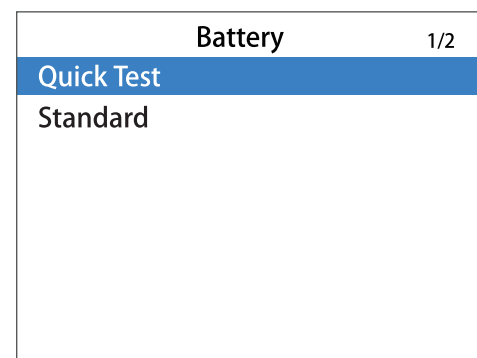
The tester powers on automatically when it is correctly connected to the battery. The preferred test position is at the battery terminals. If the battery is not accessible, you may test at the jumper post. However, the measured value may be lower than the actual value.

NOTE:

If you are testing inside a vehicle, make sure all accessory loads are cut off, the key is not in the ON position and the doors are closed.

To connect the tester:

1. Clean the battery posts or side terminals.
2. Connect the red clamp to the positive (+) terminal and the black clamp to the negative (-) terminal.
3. Rock the clamps back and forth to make sure the clamps are firmly connected. In case the connection is poor, the testing result will be not accurate.
4. When the tester is correctly connected, the tester will power on and display the main menu screen. Choose battery option to enter the battery test.



Standard Test

Select the standard test mode, enter the interface, select the battery type, and press the OK button to continue:

Battery Type	1/5
Regular battery	
AGM Tablet battery	
AGM Winding battery	
GEL	
EFB	

Select the correct battery model:

Mode Select	1/10
CCA	
JIS	
GB	
SAE	
MCA	
CA	
DIN	
1/2>	

Press the "OK" button to continue to input the rated current CCA. Use the up and down key to enter the correct CCA value (100-2000CCA).

Information

Please input the value of cold start electric current

CCA 370 A

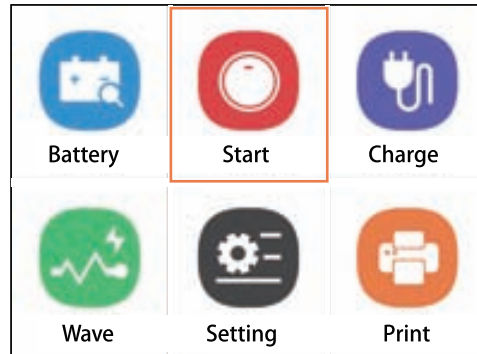
↑ : +5 ↓ : -5

→ : +20 ← : -20

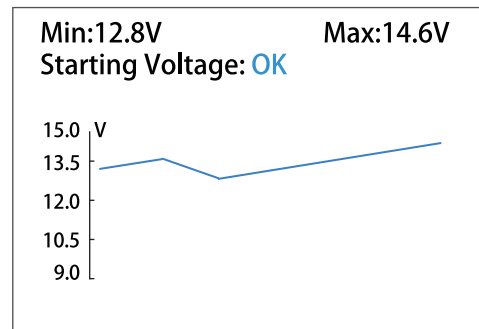
Press the "OK" button to continue to display the test result information.

Battery	
Volt	12.25V
Rated	370CCA
Measured	492CCA
Resistance	6.30mΩ
Life (SOH)	100.0%
State of charge	64%
Great	

Start test



Select the Start test option, press the “OK” button to enter the test interface, and turn on the ignition to start the engine. The battery tester will display the real-time waveform of the minimum and maximum voltage values on the screen.



Charging test

Select the Charge test option and press the “OK” button to enter the test interface. Follow the instructions to turn on the high beams headlights for at least 3seconds and keep the engine speed above 2500rpm for at least 3seconds.



Press the OK button to enter the test interface.

Follow the instruction to start the test.

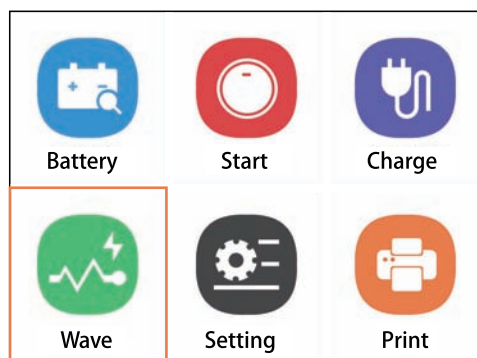
Charge

- 1.Please turn the headlights on for 3 seconds and then off
- 2.Keep engine speed above 2500 rpm for 3 seconds, then press“OK”to test

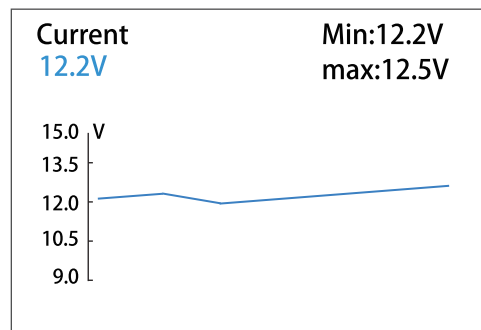
Waiting for about 2 seconds to get the test result.

Charge	
Minimum voltage	12.22V
Maximum voltage	12.29V
Ripple	0.08mV
Charge voltage: Low	

Wave View



Checking the real-time battery voltage change.



Setup

Enter the settings, select the information to be set and enter the interface information

Setting	1/5
language	
Buzzer switch	
Screen capture	
Self test	
About	

Enter the language setting interface and select the language with the up and down buttons

Language	1/9
English	
简体中文	
Français	
Español	
Deutsch	
Русский	
Italiano	1/2>

Buzzer switch

Buzzer switch

1/2

ON
OFF

Screen capture settings

To enter the screen capture interface, it must be a combination of up and down buttons. Press the key to add or cancel, and press the confirm key to save the picture information.

Screen capture

Press the button to add or cancel, and press "OK" to save

It has to be a combination of two keys



Self test

Press the OK button to enter the Self test interface, including LCD test and key test.

Self test

1/2

LCD test
Key test

About

Display product software and hardware version information

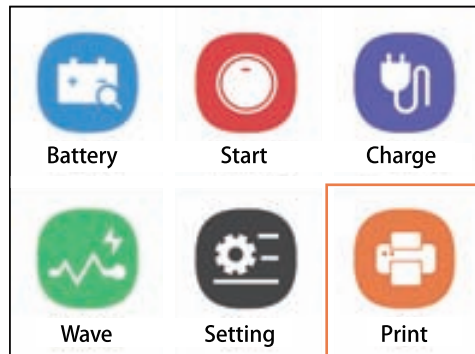
About

SW:V20.0
HW:V10.0

Print

Note: the printing function must be under the condition that the product has saved the screen capture pictures.

Connect the product type-C interface with the computer, the computer will automatically install the driver, enter the printing interface, select the picture, press the OK button to enter the printing, select the picture information on the computer to complete the printing.



Information

The current device has no picture information

1. You can view the screenshot key combination in setting
2. The device can store up to 10 images

One-Year Limited Warranty

Subject to the conditions of this limited warranty, MOTOPOWER warrants its customer that this product is free of defects in material and workmanship at the time of its original purchase for a subsequent period of one (1) year.

In the event this product fails to operate under normal use, during the warranty period, due to defects in materials and workmanship, MOTOPOWER will, at its sole option, either repair or replace the product in accordance with the terms and conditions stipulated herein.

Terms and Conditions:

1. If MOTOPOWER repairs or replaces the product, the repaired or replaced product shall be warranted for the remaining time of original warranty period. No change will be made to the customer for replacement parts or labor charges incurred by MOTOPOWER in repairing or replacing the defective parts.
2. The customer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable.
 - a) The product has been subjected to abnormal use, abnormal conditions, improper storage, exposure of moisture or dampness, unauthorized modifications/repairs, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of the manufacturer, including damage caused by shipping.
 - b) The product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, improper use of any electrical source, or the product was used in combination or connection with other product, attachments, supplies or consumables not manufactured or distributed by MOTOPOWER.
3. The customer shall bear the cost of shipping the product to MOTOPOWER. And MOTOPOWER will bear the cost of shipping the product back to the customer after the completion of service under the warranty.

4. MOTOPOWER does not warranty uninterrupted or error-free operation of the product. If a problem develops during the warranty period, the consumer shall take the following step-by-step procedure:
- a) The customer shall return the product to the place of purchase for repair or replacement processing, contact your local MOTOPOWER distributor or visit our website www.motopowers.com to get further information.
 - b) The customer shall include a return address, daytime phone number and /or fax number, complete description of the problem and the original invoice specifying date purchase.
 - c) The customer will be billed for any parts or labor charges not covered by this limited warranty.
 - d) MOTOPOWER will repair the product under the limited warranty within 30days after receipt of the product. If MOTOPOWER cannot perform repairs covered under this limited warranty within 30days, or after a reasonable number of attempts to repair the same defect, MOTOPOWER at this option, will provide a replacement product or refund the purchase price of the product less a reasonable amount of usage.
 - e) If the product is returned during the limited warranty period, but the problem with the product is not covered under the terms and conditions of this limited warranty, the customer will be notified and given an estimate of the charge the customer must pay to have the product repaired, with all shipping charges billed to the customer. If the estimate is refused, the product will be returned freight collect. If the product is returned after the expiration of the limited warranty period, MOTOPOWER normal service policies shall apply and the customer will be responsible for all shipping charges.
5. Some states do not allow limitation of how long an implied warranty lasts, so the one-year warranty limitation may not apply to you (the customer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the customer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

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MOTOPOWER INC.
16192 COASTAL HWY,
LEWES, DE 19958, USA
www.motopowers.com



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