VEEPEAK
Welcome Guide

1220 Battery Tester

Version: V1.20231015

CEFE & BE

Content	
Safety Measures and Warnings	1
2. Product Description	2
3. Battery Test	3
4. Cranking Test	5
5. Charging Test	6
6. Review	7
7. Setup	8
8. Support and Warranty	8

Scan the QR code or visit www.veepeak.com to get the latest FAQ & troubleshooting, user manual and customer support.

1. Safety Measures and Warnings

Safety precautions and warnings to prevent personal injury or damage to the vehicle and / or battery tester. When working on the vehicle, first observe this instruction manual and at least observe the following safety precautions. Failure to follow the instructions in this manual may damage the instrument. This product is designed and manufactured in strict accordance with IEC / EN61010-1 safety standard.

- Test shall be carried out in safe environment.
- Keep clothing, hair, hands, tools and test equipment away from all motor heating parts.
- Lead compounds and chemical substances are contained in the terminals, terminals and related accessories of the battery. Before measuring the data, the insulation layer of the clamp shall be checked and shall not be exposed or disconnected.
- Do not use it without properly covering the back cover, or electric shock may result.
- Do not use or store products in high temperature, high humidity, inflammable, explosive and explosive environment.

This product is suitable for 12V car start-up battery, the working voltage is DC9~18V, please do not use it to test lithium battery.

-1-

2. Product Description

2.1 Product description

1220 is a 12V car battery tester, suitable for car owners and car maintenance technicians. The battery tester can quickly read important car battery data, such as voltage, internal resistance, cold cranking current and battery capacity, battery health and state of charge. The ability to provide accurate test results, calculate the battery's cold-cranking capability and age, allows for faster and more precise vehicle repairs. The 1220 can test ordinary flooded batteries with a capacity of 100-2000 CCA, AGM flat plates, AGM spirals, and GEL batteries. 2.2 Specifications

2.2 Specifications		
Display	128*64	
Function button	UP, DOWN, OK, ESC	
Operating Temperature	-20 to 60 °C	
Storage Temperature	-20 to 70 °C	
External Power	12V	
Size	128.5*72.5*22.2	
Support Language		
English, German, French, Portuguese, Italian, Russian		

2.3 Include attachments

- User's manual Tool operating instruction.
- Battery test cable provides power to the tool and communicates between the tool and the vehicle.

2.4 Standard of optional battery

CAA:100-2000	DIN:100-1400
BCI:100-2000	IEC:100-1400
CA:100-2000	EN:100-2000
MCA:100-2000	SAE:100-2000
JIS:26A17-24SH52	GB:100-1400

3. Battery Test

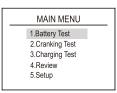
3.1 Precautions

1) Turn off the engine, connect the red clip of the tester to the positive terminal of the battery and the black clip to the negative terminal of the battery, the device will automatically power up and be ready to test.

2) If you are testing the battery in the car, do not insert the key or keep it in the off position. Make sure all electrical equipment is

3) If the battery voltage is higher than normal, turn on the headlights for 2 to 3 minutes, and check the battery when the voltage drops to normal.

3.2 Battery test function



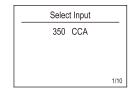
3.2.1 Select the Battery Test, enter the interface, select the battery type, and press the OK button to continue:

-3-

	Battery Type
	1. Regular Flooded
1	AGM Flat Plate
1	AGM Spiral
1	4. GEL
1	5. EFB

3.2.2 Press the OK button to select the correct battery standard: Select Input

3.2.3 Press the OK button to continue, for example enter the rated current value: 350 CCA Use the up and down keys to enter the correct CCA value.



3.2.4 Press the OK button and wait, the screen will display the test results.

> Battery Test >>SOH: 100% 324 CCA Internal R: 6.40 mΩ Rated: 320 CCA GOOD BATTERY

3.2.5 Press the ESC button and wait, the device will return to the main menu.

4. Cranking Test

4.1 Select the cranking test function, press the OK button to enter the test interface, start the engine at the same time, and follow the instructions on the screen.

MAIN MENU	
1.Battery Test	
2.Cranking Test	
3.Charging Test	
4.Review	
5.Setup	

Cranking Test START ENGINE

4.2 The test results will be displayed on the screen later.

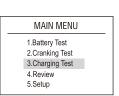


4.3 Press the ESC button and wait, the device will return to the

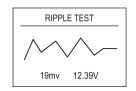
4.4 Cranking Test result instruction (For 12V battery)

	Cranking voltage	Discharge performance
	>10.5V	Good
	10-10.5V	Normal
	5-10V	Bad
	<9.5V	Very Bad
,		

5. Charging Test



5.1 Start the engine and turn on all electrical equipment, select the charging test function, and press the OK button to enter the voltage ripple test interface.



5.2 Turn off all powered devices and press the OK button to continue. Follow the screen prompts, step on the vehicle accelerator pedal, increase the RPM to 2500r/min and hold for 5 seconds.

> Charging Test Increase RPM to 2500 r/min and keep it 5 seconds. Press OK to continue.

5.3 Press the OK key and the test results will be displayed on the screen. Press the ESC key to return to the main menu.

-2-

Charging Test Loaded 12.39V Unloaded 12.39V Ripple CHARGING LOW

5.4 Charging Test result instruction (For 12V battery)

01.1	D " V "	- · · · · ·
Status	Battery Voltage	Engine Performance
All Electric System Off	>13.5V	Normal
	13.2-13.5V	General
	13.0-13.2V	Attention
	<13.0V	Inspenction
All Electric System	13.4-14.6V	Normal
On On	13.2-13.4V	Attention
	<13.2V	Inspection

6. Review

MAIN MENU
1.Battery Test 2.Cranking Test
3.Charging Test
4.Review
5.Setup

Select the Review data function and press the OK button to enter. The screen will display the latest test data.

Battery Test >>SOH: 100% 324 CCA >>SOC: 100% 12.39 V Internal R: 6.40 mΩ Rated: 320 CCA GOOD BATTERY

Charging Test Unloaded 12.39V Ripple 19mv CHARGING LOW

Press the ESC key to return to the main menu.

7.1 Select the setting function and press the OK button to enter the language setting interface.

MAIN MENU 1.Battery Test 2.Cranking Test 3.Charging Test 4.Review 5.Setup

Language 1. English 2. French 3. German Portugal 5. Italian 6. Russian

7.2 Select the language, press OK to confirm, and jump to the main menu after completion.

8. Support and Warranty

For technical support or warranty service, please contact us via one of the following ways:

Email: support@veepeak.com

• Visit www.veepeak.com to submit a contact form.

Please describe your issue in as many details as possible and include a screenshot if you get any error message. Emails usually be answered in 24 hours.

Products are covered by one-year hassle-free replacement warranty against defect.

-4-