

DC Electronic Loader



1. Feature Overview

1.1 Battery Capacity Test

Support nickel-metal hydride, nickel-chromium, lithium, lead-acid batteries and other types of single and tandem discharge capacity test the battery pack.

1.2 Power Performance Testing

Support a variety of DC power performance testing, you can measure the power output capability and overload protection functions.

2. Specifications

1) Input Power: DC 12V 1A.

2) Voltage range: 0-30.00V, termination voltage can be set.

3) Current Range: 0.1-10.00A (10H), 0.2-20.00A (20H), the discharge current can be set.

4) Discharge power: 120W (instantaneous maximum 150W).

5) Test mode:

Constant current discharge (CC), the measured voltage is lower than the termination voltage is automatically stopped.

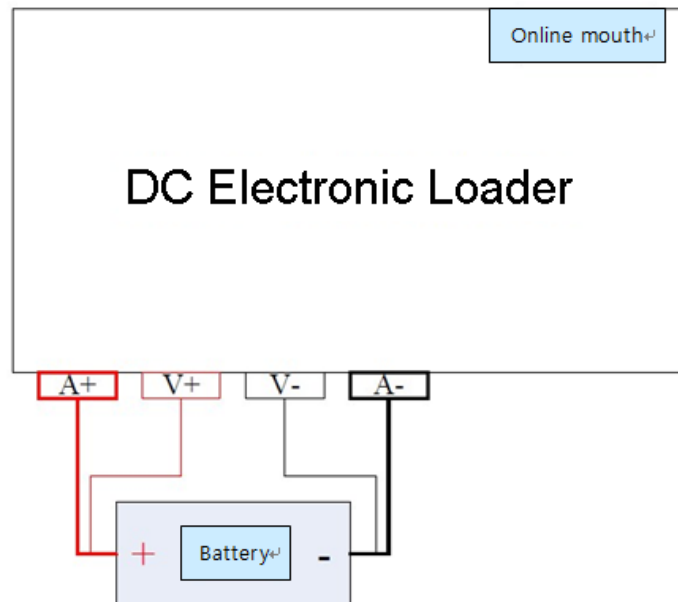
Constant power discharge (CP), the measured voltage is lower than the termination voltage is automatically stopped.

6) LCD display: voltage, current, power, time, capacity, energy and other test data.

7) Computer Online: turn TTL cable to connect via a dedicated USB, with more expansion.



3. Wiring



2.1 Test Interface

Test interface is a 4 terminals (to support banana plugs), where A +, A-, respectively connected to the positive test object

And negative, as the discharge current connection channels, in addition V +, V- are respectively independent two leads are connected to the test for

Positive and negative image as a measuring voltage connection path. Thus, when measured by four-wire connection, you can eliminate

In addition to measurement error caused by wire, improve test accuracy.

2.2 computer on-line

Tester transferred via a dedicated USB TTL connection cable to the computer.

2.3 Input Power:

Tester uses DC 12V 1A power supply, the interface is 5.5 / 2.1 specification (inside is outside the negative)

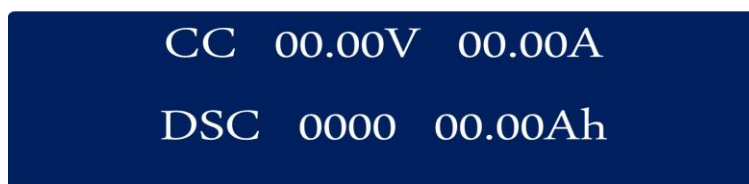
4. Display and setting

4.1 Key

SET (1) - Set Knob

ON (2) - Start

4.2 Test Interface



The first line of the display mode (CC, CP), the measured voltage and current.

The second line shows the state (DSC, OFF), time and capacity (0000mAh, 00.00Ah and 000.0Ah automatic cut

Change). Press "set button" to switch the display of power and energy.

CC 00.00V 00.00A

DSC 00.0 00.00WH

Test modes are:

Constant current mode (CC): This mode is the constant-current discharge through

EBD, you can set the discharge current and termination

Voltage, stop the discharge when the measured voltage is lower than the termination

voltage. If you set the discharge time, when the time exceeds a set value

When it will stop automatically. For measuring the power of output current and

battery capacity. If it does not automatically stop when measuring power

To the termination voltage is set to the minimum value.

Constant power mode (CP): This mode is carried out by EBD constant power

discharge, you can set the discharge power and termination

Voltage, when the measured voltage is lower than the termination voltage to stop the

test.

Press "Start" button to start (DSC), press again to stop (OFF).

In the stop mode, press "Settings button" 2 seconds to enter the setup interface (with

the PC client software to connect to this function after being

Disabled).

4.3 Setting interface

CC 00.00V 00.00A

DSC 00.0 00.00WH

Mode selection and testing of the first acts of the current settings (CP mode when the discharge power).



DSC-CP 000 W
00.00V 000Min

The second line termination voltage and test time setting (0-999, set to 0 unlimited).

The default cursor displayed on the mode setting, press "Settings button" to move the cursor to a specific value to be set, according to

Move the cursor to the right a bit, turn the "Settings button" values can be selected with the cursor set. The setting value

After the scope is limited to the corresponding value automatically. Press "Start" key to quickly switch to the next set of settings.

Press "Settings button" save data during setup and return the test interface.

After setting the test screen, press the "start" button to start the test.

4.4 Setting an example

1) 3.7V lithium battery 10A discharge to 2.8V:



DSC-CC 10.00A
02.80V 000Min

2) 12V power supply 5A discharge 60 minutes:



DSC-CC 05.00A
00.00V 060Min

5. Notes

1) Test wiring positive and negative can not be reversed, otherwise it will damage the tester.

2) Test ban over-range use.

3) Set the current test should ensure power does not exceed power dissipation: $P =$

U (voltage) * I (discharge current).