

Chengdu Heltec Energy Technology Co., Ltd

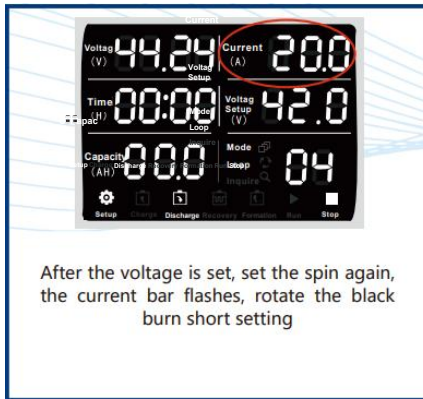
Lithium/lead-acid Battery Detector HT-CC40ABP

Product introduction

Electric lead-acid series detector is a special battery detection equipment which integrates high-precision capacity series discharge detection and high-precision series charging functions. Charge and discharge tests can be performed on lead-acid batteries, car ion batteries and other batteries. It is a high-precision special instrument suitable for electric vehicle dealers and battery manufacturers to test battery performance.

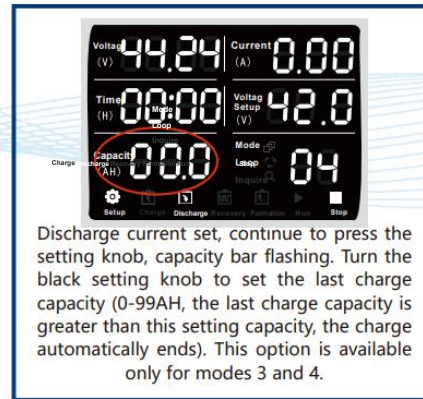
Technical index

Discharge current accuracy	±0.03A
Discharge voltage accuracy	±0.03V
Discharge cut-off voltage	9 ~ 99V adjustable, adjustable range 0.1V
Discharge current	0.5 to 40A constant current, adjustable current 0.1A
Charging voltage accuracy	±0.03V
Charging voltage range	9-99V Adjustable 0.1V
Charging current	Adjustable from 0.5 to 20A, current adjustable from 0.1A
Charge cut-off current	01-5A 01A is adjustable
Charging current accuracy	±0.03A
Cyclic shelving time	0-20 minutes
Maximum number of cycles	16 times
Cycle last charge capacity preset	0-99AH(0 indicates no preset)



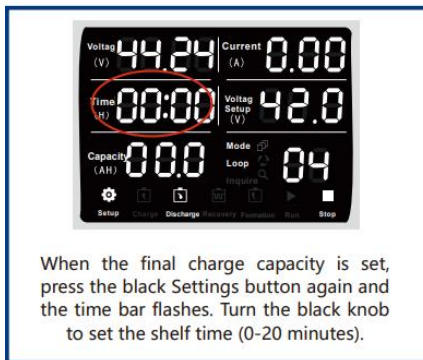
Loop Figure 7

After the voltage is set, set the spin again, the current bar flashes, rotate the black burn short setting



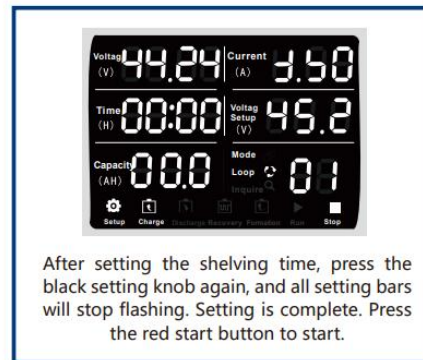
Loop Figure 8

Discharge current set, continue to press the setting knob, capacity bar flashing. Turn the black setting knob to set the last charge capacity (0-99AH, the last charge capacity is greater than this setting capacity, the charge automatically ends). This option is available only for modes 3 and 4.



Loop Figure 9

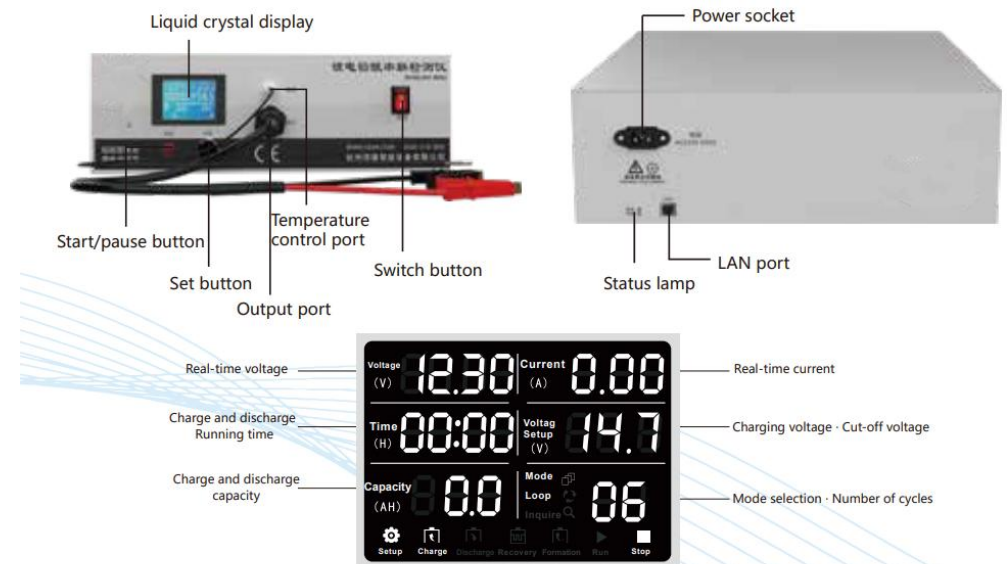
When the final charge capacity is set, press the black Settings button again and the time bar flashes. Turn the black knob to set the shelf time (0-20 minutes).



Loop Figure 10

After setting the shelving time, press the black setting knob again, and all setting bars will stop flashing. Setting is complete. Press the red start button to start.

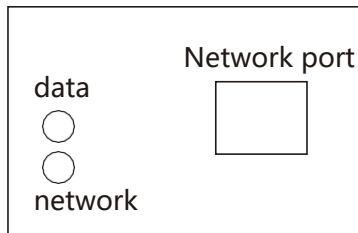
Email: echo@heltec-bmc.com
 Website: www.heltec-energy.com



Pattern overview

Power socket	Mode description
00	Historical cyclic data query mode
01	Capacity test
02	Standard charge
03	Start with discharge and end with charge, cycle number 1-16 times
04	Start with charge and end with charge, cycle number 1-16 times
05	Start with discharge and end with discharge, cycle number 1-16 times
06	Start with charge and end with discharge, cycle number 1-16 times
07	Networking mode (automatically changed to this mode when the computer starts the device)

Indicator description



Indicator description: Blinking red - The network cable is not connected

Blinking green - The network cable is connected, but no software is connected

Steady green - The software is connected

Data indicator light: Blinking green - Channel data exchange

The green light is usually dark -- no channel data is available

Performance and usage tips

- ✘ Protection function of positive and negative polarity reverse connection
- ✘ Intelligent cooling fan
- ✘ Special LCD screen, all data at a glance
- ✘ High precision, flexible setting, to meet different charging and discharging requirements

Matters needing attention

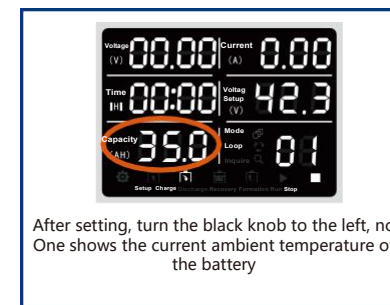
After the parameter setting is complete, the system will automatically save the Settings, the next startup without setting, click the start button to directly run.

During operation, press the start button to suspend the work. If you press the start button again, the device will reset data and start. If you press the start button again for more than 5 seconds, the device will retain data to start correctly connecting the battery and maintaining a good connection.

Inflammable and explosive materials in use should be kept away and kept in a cool and ventilated place. Do not block the intake and outlet.

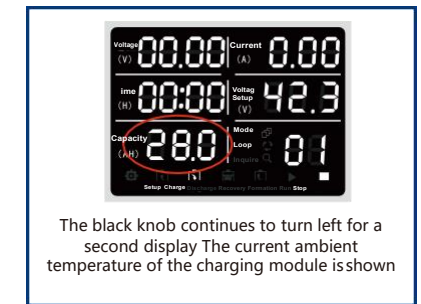
Usage method

1. temperature check



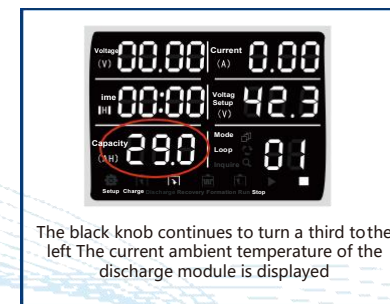
After setting, turn the black knob to the left, no One shows the current ambient temperature of the battery

Temperature view 1



The black knob continues to turn left for a second display The current ambient temperature of the charging module is shown

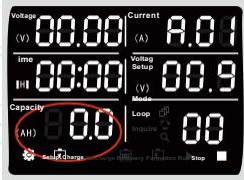
Temperature view 2



The black knob continues to turn a third to the left The current ambient temperature of the discharge module is displayed

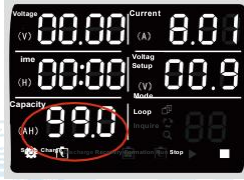
Temperature view 3

2. temperature setting



The black knob is rotated to mode 0

Temperature setting 1



Click the black knob and the cumulative capacity blinks, left and right. Rotate to adjust the temperature setting, and set the temperature to intercept. To the temperature, beyond which the device automatically stops running.

Temperature setting 2

3. Query mode (mode code 0)



Press the black Settings button, the mode bar flashes in the lower right corner, turn the black Settings knob and set mode to "0", the LCD displays the last charge.

Query Figure 1



To query the first charge, press the black Settings Button, the lower right mode bar is displayed as "01", at this time the screen shows the first charge data.

Query Figure 2



Continue to rotate the black knob clockwise, right "01" is displayed in the lower mode bar, and the screen displays the first time Cyclic discharge data.

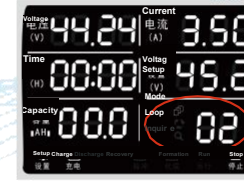
Query Figure 3



Continue to rotate the black knob clockwise, "02" is displayed in the mode bar on the lower right, and the screen displays the data of the second charge. More cycles, more repetition.

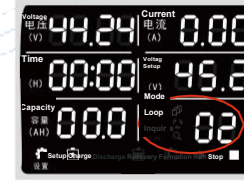
Query Figure 4

4. Charging Mode (Mode code 2)



Press the black Settings button. The mode selection bar in the lower right corner flashes. Rotate the black Settings button.

Charge Figure 1



After the mode setting is complete, continue to press the setting knob, the voltage setting bar flashes, and rotate the black setting knob.

Charge Figure 2



After the voltage is set, continue to press the setting knob, the current bar flashes, rotate the black setting knob, set the charging current.

Charge Figure 3



After the current is set, continue to press the black setting button again, and the current bar displays "0.50". Rotate the black setting button to set the charging cutoff current.

Charge Figure 4



Press the black Settings button, the charging cutoff current is set, press the black setting button again. All setting bars will stop flashing, and the current will display "0.00", indicating that the setting is complete. Press the red start button to charge, and automatically stop after charging, the mode selection bar in the lower right will flash, and rotate the black setting knob.

Charge Figure 5

5. Discharge mode (mode code 1)

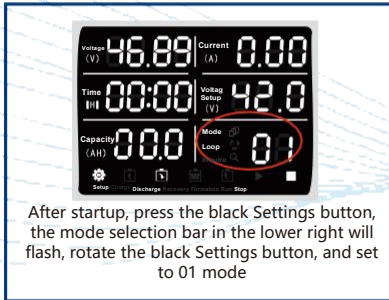


Figure 1 Discharge

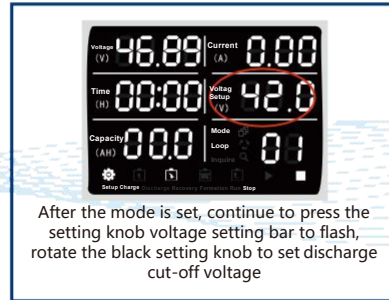


Figure 2 Discharge

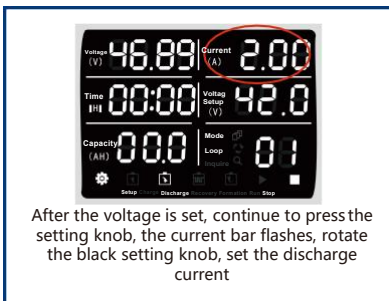


Figure 3 Discharge

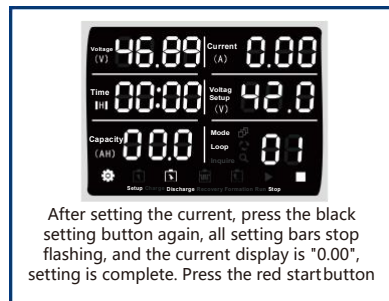
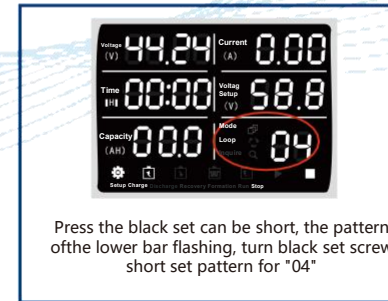


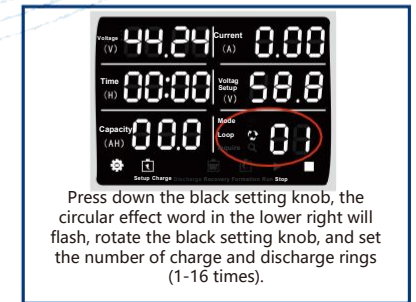
Figure 4 Discharge

6. Charge and discharge automatic cycle mode (mode code 3, 4, 5, 6)

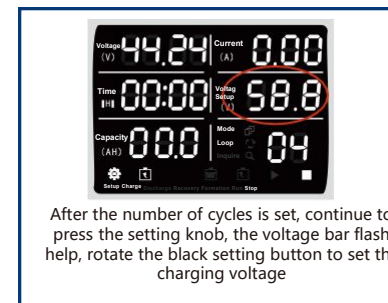
Take pattern 4 as an example



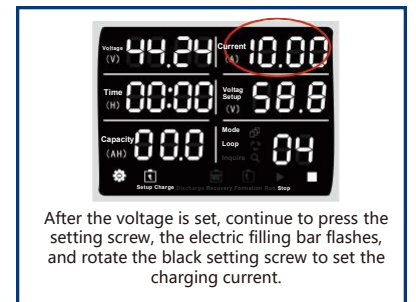
Loop Figure 1



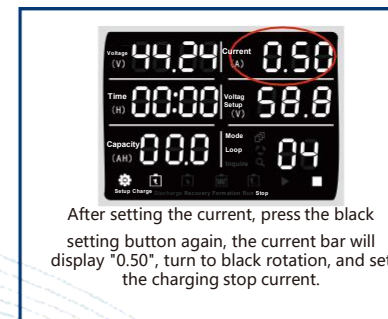
Loop Figure 2



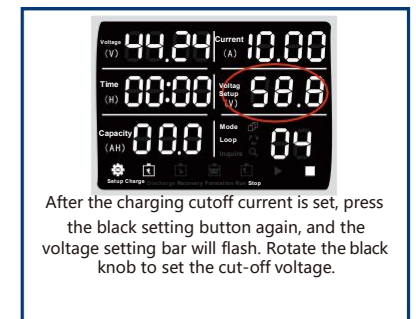
Loop Figure 3



Loop Figure 4



Loop Figure 5



Loop Figure 6