# TEC-06 instruction

Description: TEC-06 battery capacity meter has nine characteristics:

1. coding switch (Shuttle) operation, convenient and simple, beautiful appearance.

2. Current accurate, current full-scale error is less than 0.5%.

3. The integrated fan, dischargePower up to 18W, fanThe power automatic switch.

4. Support 4-wire measurements, measure battery internal resistance.

5. off voltage can be adjusted between 1.0V ~ 12V, step 0.05V.

6. Press the set current begins to discharge when the measured voltage is higher than the cut-off voltage of 0.1V, the detector began to automatically adjust the discharge current, after four times to automatically adjust the current when the final deadline for setting current about 1/5 ~ 1/3, so discharge faster, more thoroughly!

7. The battery is low current, the detector can automaticallyAdjustmentSet current, until the battery can satisfy the actual current setpoint. When the actual current is less than 40% of the set current discharge detector off.

8.MINI USB port (5V voltage) power supply, your hands extra charger can power it. The actual current consumption within 240mA.Note: Many no-name charger output current severe vacuity, far less than the nominal current. This detector requires power supply at 240mA current at a voltage not lower than 4.6V.

9. maximum detection capacity 500AH

Detector numerical display is the use of four digital tube.5 LED lights corresponding to five values displayed are: capacity, measured voltage, turn-off voltage, current, resistance. Rotary switch to switch various displays.

Where in the capacity of the unit is AH, four significant figures;

Voltage in volts, three significant figures show ends with a U;

Current unit is mA, four significant figures;

Resistance unit is mΩ, four significant figures;

How to set the discharge current:

Rotary switch to the "current" display mode, this time showing the current set, press the switch in this state, "current" LED lights flashing, other LED full light on the current setting into the mode where the rotary switch that is resizable current clockwise increase, decrease counter-clockwise. And then press the switch setting is complete, exit the current setting mode. Simple operation, the hand that will. The minimum step size is between 100mA ~ 500mA 50mA; 500mA above the minimum step size is 100mA.After adjusting this parameter will be stored in the tester, power will be maintained.Detection is also possible to adjust the current.

How to set-off voltage:

The same as the current setting methods.Rotary switch to the "off voltage" display mode, this time showing the set cut-off voltage, press the switch in this state, "cut-off voltage" LED lights flashing, other LED full brightness, representatives to the cutoff voltage setting mode, In this case the rotary switch to adjust the size of the cut-off voltage, clockwise increases, counterclockwise to decrease. And then press the switch setting is complete, exit the setting mode. The minimum step size is 0.05V.Detection is also possible to adjust the cut-off voltage. After adjusting this parameter will be stored in the detector,Power will be maintained.

How to use:

1.Connect the battery or mobile power. If the two-wire connection, the access I +, I-; if you want to measure the internal resistance of the battery, you need a four-wire battery clip, corresponding to connect I + (current positive), I- (current negative), V + (voltage measurement correct), V- (negative terminal voltage measurement). If you use an electronic load, set the input power accessI +, I-;Circuit has reverse polarity protection.

2. Set the turn-off voltage. Off voltage is recommended as follows:

Ni-Cd 1.0V NiMH

2.5V lithium iron phosphate

3.0V lithium polymer

Mobile Power 4.0V

6V lead battery 5.4V

12V lead battery 10.8V

3. Set the discharge current.This current is the maximum discharge current, battery voltage as measured near the turn-off voltage, the detector will automatically adjust the discharge current, four times the adjustment process, the discharge current when the final deadline for setting current 1/5 ~ 1/3 , so that improve the detection rate, but also improve the accuracy of detection.

4. Start:If the measuring cell, then in the "capacity" display mode, press the switch to start, and then switch that is suspended. If you are measuring a moving power, then "Measure the voltage"UnderPress the switch to start, and then switch that is suspended. LED flashes at start-up state.

5. The tests are complete:After the completion of the digital display flashes, LED lights are no longer flashing. The final volume will be displayed on the digital tube. In any mode, press 2 seconds to switch to clear the last of the test results.

Round display function: In the "resistance" display mode, press the switch enterRotator state. Each parameter display stay three seconds wheel was the order of capacity - detection voltage - off voltage - current - resistance - at this time in any capacity ............. display state, press the switch to the end of the round was.

****About Accuracy****:

Voltage measurementError: 1%, this error on the battery capacity measurement error is very small.

Current settingError:Full-scale error is less than 0.5%.

Capacity measurement error: <0.5%

Battery internal resistance absolute error: 2mΩ + 2mV / measuring current. (Using a four-wire battery clip OUR)