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## *Battery Capacity Tester*

### *Model:FDY10-S*



#### *Description:*

FDY10-S Battery tester structural design in reasonable, easy to carry, may detection battery capacity, can also measure battery discharge time and discharge AH.

Comprehensive detection and measure two function new type measure equipment.

Can adaptive from 1V to 20V voltage range different varieties different types.

Measure battery varieties: Ni-Cd, Li-Ion, Pb, Ni-Mh, Ag-Zn, LMP, Li-po, Pb... Measure current range from 0.1A to 10A auto constant current, set stop discharge voltage range from 0V to 20V,when discharging LED can real time display battery voltage,Current, Power, AH and total time. When stop discharge LED display AH and discharge time.

#### *Features:*

- Structure extremely compact, easy to carry.
- Main tester and heating load kit separation design, safety in long time continuous work.
- Use 4-wire measurement, eliminating the voltage drop due to the internal resistance of the cable (the connection between the battery and the tester) measurement error, more accurate measurements.
- Display part use 6 LED indicator and 4 Digital display, 6LED indicator show display details, 4 Digital display show battery parameter in resolution 0.01V, 0.01A.
- Automatic switching display all the battery main parameter: volt, amp, watt, AH,running hour.
- With BUZZER warning when discharge process stop.
- Support 2-Wire and 3-Wire connection mode, 3-wiring mode provides wider voltage measure range.
- Battery voltage automatically adapt, product automatically adapt to 12V and 16V, automatically set stop discharge voltage to 10.5V or 14V.
- With quickly test function, in 1 to 10 minutes test battery capacity.
- Constant resistance mode, can shield PWM CC function, user can free to select different resistance according to different battery.

#### *Specifications:*

- Set the battery discharge current:

If the measured battery voltage is low, user can free to set current between 0.1A ~ 10A;

If the battery voltage over 10V, user can free to set current between 0.4A ~10A.

If Step value in setting mode is 0.1A, press and hold can faster set step in 1A,open the constant resistance function mode, the setting is invalid, actual discharging current is determined by the resistance of the battery voltage and external power,please refer the detail in OPERATION section.

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- Stop discharge voltage: 0.00V to 20.00V, voltage setting step in 10V is 0.01V; setting step over 10V is 0.1V.
- Measuring voltage accuracy: 4 Digital display, 10mV to 20, accurate 10mV, error 0.5%.
- Measuring current accuracy: 4 Digital display, 0A to 10A, accurate to 10mA, error 1%.
- Measuring power accuracy: 4 Digital display, accurate to 100mW.
- Battery capacity accuracy: less 100AH accurate to 10MAH, more than 100AH, accurate 100MAH, maximum displayed value 999.9AH.
- Discharge time display: Hour (2 digital): Minute (2 digital), for example 02:15, means two hours fifteen minutes.
- Voltage automatic recognition: in setup model open automatic recognition, less than 15V battery is recognition 12V battery. More than 15V battery is recognition 16V battery.

Notes: This function only work when power on, please use 2 wire connections.

- Battery over-voltage protection: when connection battery voltage more than 20V, tester will lock the discharge process, over 40V will damage product!
- Build in reverse polarity protection function: When battery positive and negative polarities wiring wrong, the test meter will not damage, but please don't keep this condition in long time.
- Display model: user free to change main display use and key. Or set automatic switching mode show the battery parameter in turn.
- Star/Stop: Press "OK" key for start, press again stop. Time and capacity is accumulate, press and hold key for reset the memory, or auto-reset when power off.
- Discharge warning's: the display flick and buzzer warning when discharge stop, press any key to stop warning.
- External power resistance cooling model: when discharge process the resistance is very hot! Please avoid touch and place in safety place.
- Dimensions: Product: 116\*90\*40mm, High-power resistance: 165\*60\*30mm
- Weight: 190g, High-power resistance: 450g

