



XIAMEN TOB NEW ENERGY TECHNOLOGY CO., LTD.

Provide A Full Set Of Solutions For Battery Machines.

SALES tob.amy@tobmachine.com

TECH SUPPORT +86-18120715609

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768 Channels Battery Forming And Grading Machine



768 Channel Battery Formation and Grading Tester, double-sided structure, each battery forming machine can control and detect 768 Ni-MH or Cd-Ni batteries by constant current charging and discharging.

- Brand:TOB NEW ENERGY
- Item No.:TOB-768-3N
- Order(Moq):1set
- Payment:L/C,T/T,Western Union
- Product Origin:China
- Shipping Port:XIAMEN
- Lead Time:30

Product Detail

768 Channels Battery Forming And Grading Machine For Ni-MH Battery Or Cd-Ni Battery Testing

SPECIFICATIONS

768 Channel Battery Formation and Grading Tester, double-sided structure, each battery forming machine control and detect 768 Ni-MH or Cd-Ni batteries by constant current charging and discharging.

| | |
|---------------------------------|--|
| Channels per unit | There are 96 groups, 8 channels in each group and 768 channels in the whole machine. |
| Constant current range | 0.015~3A, Resolution 1mA |
| Sampling interval | ≤8 seconds |
| Current setting accuracy | ± (0.1%RD+0.1%FS) |
| Accuracy of current measurement | ± (0.1%RD+0.1%FS) |
| Voltage measurement range | 0~2V, resolution 1mV |
| Accuracy of voltage measurement | ± (0.2%RD+0.1%FS) |
| Voltage range of tested battery | 0~1.8V |
| Time range | 0-999 minutes/step, accuracy: ±0.1% |
| Dimension | L1720 x W500 x H1840mm |
| Communication mode | RS485, baud rate 57600 |
| Supporting battery type | Single Ni-MH battery or Cd-Ni battery |
| Clamp type | Two-wire clamp |
| Supporting battery height | 10-80mm, adjustable |
| Distance between clamps | 30mm |
| Working power supply | Three-phase four-wire system, AC380V±5%, 50HZ, 7KW |
| Full load working current | Phase line maximum 7.5A, zero line maximum 15A |

| | |
|-------------------------------|---|
| Start-up current of equipment | The instantaneous closing time of air switch is about 60A |
| Weight | About 300kg |

2 Equipment Composition

This equipment is mainly composed of a computer (computer provided by customer), a communication interface and a battery forming machine.

The battery forming machine is composed of clamp and plate body for placing the clamp, a main board, a charge and discharge switch power supply, machine and a control panel.

3 Main Performance of Equipment

1. Double-sided structure, each battery forming machine can control and detect 768 Ni-MH or Cd-Ni batteries by constant current charging and discharging.

2. A light-emitting diode is installed on each clamp as an over-voltage and under-voltage bypass register display. After discharge, it is used to indicate battery capacity sorting.

3. AVR single-chip computer is used as the control center, which can be controlled by the upper computer or separated from the upper computer to complete constant current charging, discharge testing and capacity sorting.

4. Real-time detection of the charging and discharging voltage of each battery. When charging, the bypass is stored when the voltage exceeds the set upper limit or $-\Delta V$ (preset) occurs, and the corresponding battery indicator lights up. When the discharging voltage is lower than the lower limit set by the user, the bypass is registered and the corresponding battery indicator is lit.

5. Every 8 batteries (in series) have a set of constant current sources, which are sampled by analog switch switching. There are 96 sets of constant current sources in the whole machine. The damage of one group of constant current sources will not affect the normal operation of other channels, modular structure, low failure rate and convenient maintenance.

6. Voltage sampling by zero-current mode (i.e. closing the output current of the constant-current source at the moment of tapping voltage and restoring the current after sampling) can effectively reduce the misregistration phenomenon caused by excessive contact resistance of fixture and reduce the failure rate of fixture while ensuring the sampling accuracy.

7. Current settings are set by computer software or keyboard operation.

8. It has the function of data power-off protection, and can continue to operate after power is available.

9. When charging or discharging, if there is no current in a circuit, there will be an indicator lamp to alarm, and each set of constant current sources has a fault indicator lamp.

10. Each PC can connect 1-6 devices.

11. It has the function of automatic discharge recharge to ensure that each battery is discharged according to the given current. Even if the last battery is left, it can discharge according to the given current.

12. Save the test results and process the data.

1) Indicating the capacity of batteries in any segment (up to 16 segments).

- 2) The complete charge-discharge curve of each station can be set and saved (which needs to be connected to the upper computer to save).
- 3) Batteries can be sorted according to pre-operation settings.
- 4) Provide battery sorting function.

Product Display

