NEW product

AT5800 Smart Touch
BATTERY COMPREHENSIVE TESTER

CHINESE/ENGLISH OPERATION
300 (W) * 130 (H) * 420 (D)
UNIT: mm
Weight: 5kg

Five test functions

- 5 inch large screen true color LCD display
- Standard RS232 Handler interface

① Voltage and AC internal resistance test
② Programmable DC power supply
③ DC electronic load
④ Battery capacity test
⑤ Comprehensive test:

Complete voltage internal resistance, charge test, over-charge test, discharge test, over discharge test, short circuit test, DC internal resistance and other functions in a short time.



Power Supply 200V-240VAC 47.5-52.5Hz Power: maximum 120VA

AT5800 has beautiful appearance, fast and stable testing, and is used to test the performance of lithium batteries, Ni-MH batteries, Ni-CD batteries and lead-acid batteries.

Abundant interfaces and communication protocols meet the installation requirements of automation equipment, and calmly respond to various industrial field tests.

FIVE TEST FUNCTION PARAMETERS

1 VOLTAGE / AC INTERNAL RESISTANCE TEST RANGE

Resistance test range	0.0001mΩ~300Ω, (±0.5%) Test frequency 1kHz
Voltage test range	0.00001~80.0000V, (±0.01%)

2 POWER SUPPLY

Maximum output voltage	30V (±0.05%, ±6dgt)
Maximum output current	5A (0.3%, ±6dgt)
Ripple voltage	<5mVrms
Ripple current	<5mA
Load regulation rate	<1%

3 DC ELECTRONIC LOAD

Voltage test range	0~30.000V, ±0.05% (±6dgt)
Current test range	0~3.0000, ±0.1% 0~15.000, ±0.2%
Overcurrent measurement range	0.001~15.000A
Maximum continuous power	100W
DC internal resistance test	0~1000mΩ

4 BATTERY CAPACITY TEST

Capacity Test Range	0.001~9999.9AH

GENERAL

Model	AT5800
Trigger	Internal, External and Remote
Calibration	Short-circuit Clear Zero
Interface	Handler, RS-232
RS232 remote control	Supports a maximum baud rate of 115200bps, compatible with SCPI protocol and MODBUS protocol
Handler interface	All optocoupler isolation, built-in pull-up resistor input and output ports, supporting internal 5V and external maximum 35V power supply, Input: trigger signal, Output: sorting result signal, measurement synchronization signal
Beep	Off / GD / NG
Display	5 inch TFT-LCD true color display, full touch operation
Programming Language	SCPI and Modbus（RTU）
Accessories	ATL 527 Kelvin test clamp； ATL108 RS232 communication cable ； DB15 connector accessories

5 COMPREHENSIVE TEST

Quick test and sorting of the characteristics of the battery with protection board, the test item can be edited by user.

Battery activation	Set this step to make the battery exit hibernation or over discharge protection state
Voltage internal resistance	Four terminal test, accurate test of 1kHz AC internal resistance and battery static voltage
Charge test	The tester charges the battery, and after the test time, tests the actual voltage of the battery and compares it with the set upper and lower limits
Overcharge test	The tester charges the battery according to the step current and step time set by the user. At the same time, it detects whether the current is cut off, tests the battery charging protection current, compares it with the set upper and lower limits, and determines whether the battery charging overcurrent protection function is normal
DC internal resistance test	The load module sets the current with load, obtains the no-load and on-load voltage of the battery, converts the DC internal resistance, and the test range (0~1000m Ω)
Discharge test	The tester discharges the battery, and after the test time, tests the actual voltage of the battery and compares it with the set upper and lower limits
Over discharge test	The tester charges the battery according to the step current and step time set by the user. At the same time, it detects whether the current is cut off, tests the battery charging protection current, compares it with the set upper and lower limits, and determines whether the battery charging overcurrent protection function is normal
Short circuit test	The tester carries the maximum current within the set time, simulates the short-circuit conditions, and detects whether the current is cut off at the same time. The short-circuit protection time of the battery is tested and compared with the set upper and lower limits to determine whether the battery short-circuit protection function is normal. The short-circuit test time resolution is 0.1ms
Recovery test	After the short-circuit test, overcharge test and over discharge test, the battery may be in the protection state. Judge whether the battery is restored to normal through the recovery test