

Battery Tester ANBTS7500(F) Series



Product Overview

- The ANBTS7500(F) Series Battery Tester utilizes a 1kHz AC constant current source and four-terminal method to measure the AC internal resistance (ACIR) and open circuit voltage (OCV) of lithium batteries, providing the resolution of the AC impedance as low as 0.1μΩ and excellent anti-interference ability.
- The ANBTS7500(F) Series Battery Tester is widely applied in the processes such as the formation and grading of the cell, the on-line screening of the battery in the module and battery pack, and the off-line detection, etc.

Specifications

Features

- High-accuracy test**
 - Battery internal resistance ranges from 0.1μΩ to 3.1kΩ, with 0.5% accuracy, and 7 ranges.
 - Open circuit voltage ranges from 10uV to 100|300V, with 0.01% accuracy, and multiple ranges.
- Comparator function**
 - The battery internal resistance and open circuit voltage have comparator function switches, which can be used to set upper and lower limits for resistance and voltage respectively, compensating for testing.
- Test reliability**
 - AC four-terminal method testing, with 4mm diameter coaxial contact points and interference-resistant testing cables. Contact detection function, with programmable anti-spark design.

Model	ANBTS7501(F)				ANBTS7503(F)			
Functional Configuration	MAX100V, ACIR				MAX300V, ACIR			
AC Internal Resistance								
Measurement method	AC four-terminal method							
Current frequency	1kHz±0.2Hz							
Resistance range	3mΩ	30mΩ	300mΩ	3Ω	30Ω	300Ω	3000Ω	
Maximum display value	3.1000mΩ	31.000mΩ	310.00mΩ	3.1000Ω	31.000Ω	310.00Ω	3100.0Ω	
Resistance resolution	0.1uΩ	1uΩ	10uΩ	100uΩ	1mΩ	10mΩ	100mΩ	
Measuring current	100mA		10mA	1mA	100uA	10uA		
Resistance accuracy	3 mΩ range: ±(0.5% ×Reading value+10 digits); 3 mΩ or more range: ±(0.5%×Reading value+5 digits)							
DC Voltage								
U-RANGE	6V	60V			100V		300V	
Voltage resolution	10μV	100μV			1mV		1mV	
Maximum display value	±6.00000V	±60.0000V			±100.000V		±310.000V	
Voltage accuracy	±(0.01% × Reading value + 3 digits)							
Panel function	Touch screen operation, storage of 100 sets of test conditions, with the open circuit detection, comparator, speed selection, range selection, function selection, etc.							
Interface function	RS232, LAN, I/O							
Operational environment	Operational environment: 0℃-40℃, below 80%rh (no condensation); Accuracy guarantee environment: 23℃±5℃, below 80%rh ((no-condensing)							
Power supply specifications	AC220V±10%, 50Hz/60Hz, 20VA							
Dimensions (W×H×D mm)	213×88×300							