CHEN TECH ELECTRIC

Chamber Integrated Battery Test Equipment

ABT 1000 Series

Applied test

Life cycle test

Capacity test

DCIR measurement

ACIR measurement

Environmental test

The best solution for the following needs

- To optimize the use of space inside the laboratory.
- To gain an understanding of how different environmental variables (temperature and humidity) can impact a battery's performance.
- With requirements for long-term testing.
- To provide integration functionalities through hardware in order to lessen the operational burden for related personnel.

Applied technology

Charge and discharge rapid switch

Drive simulation

Discharge to 0V

Temperature / humidity control

AC Power	Customized According To Client Needs						
Loading Range	Charge	0~5	Discharge	2~5V* (Option: Discharge to 0V)			
Output	Constant Voltage	Maximum Voltage	5	Measurement	Voltage	Range	0~5.5V
		Resolution	16 bit			Resolution	24 bit
		Accuracy	±0.04% F.S.			Accuracy	±0.04% F.S.
	Constant Current	Maximum Charge/ Discharge Current	Depend on Spec*		Current	Range	0~Maximum Charge/ Discharge Current*1.1
		Resolution	16 bit			Resolution	24 bit
		Accuracy	±0.03% F.S.			Accuracy	±0.03% F.S.
	Constant Power	Maximum Power	Depend on Spec*		Temperature	Range	-50~150°C
		Resolution	16 bit			Resolution	0.1°C
		Accuracy	±0.07% F.S.			Accuracy	±1°C(-40~90°C)
Data Recording Time	100ms						
Communication Interface	Ethernet						
Ambient	23°C ± 2°C; 20~90HR						
Optional Features	DCIR Measurement, ACIR Measurement, Parallel Connections among Channels, Data Analyzer.						
Accessory	Customized Fixture, Auto-Calibrator, Buzzer						

*Accept Customized Request

Main Features

Through the integration of the battery testing system and the chamber into one equipment, a single software application can be used to control the entire unit. In addition, space utilization can be improved by 20 to 50%.

Customization is possible based on different power and precision specifications required by the customer.

Customized fixtures can be made for the batteries to be tested.

Others

Independent control and output of each channel.

Able to make parallel connections among multiple channels in any configuration to increase current output.

Operating modes: constant current, constant voltage, constant power, DCIR, ACIR.

Advanced data analysis functionality.

Mechanical designs can be adjusted according to customer specifications.

With various types of international testing standards for DCIR already built in.

Model	Voltage (V)	Current (A)
ABT 1000 5V/10A	5	10
ABT 1000 5V/15A	5	15
ABT 1000 5V/20A	5	20
ABT 1000 5V/30A	5	30
ABT 1000 5V/50A	5	50
ABT 1000 5V/100A	5	100