

BCT-150 BATTERY CELL TESTER

PERFORMANCE AND ENDURANCE TESTING

- Full automatic switching between 3 test modules: Cycler Module, High Frequency Signal Module and Coulombic Efficiency Module
- Coulombic measurement reading up to 10ppm
- 200KHz High Frequency Signal Module
- Expandable system, up to 16 Cycler Modules



TESTING THE FUTURE®

BATTERY CELL TESTER
PERFORMANCE AND ENDURANCE TESTING

BCT-150

The BCT-150 is a new system for battery cell testing resulting in improved battery measurement to better estimate SoH and SoC. This PC based machine integrates high power, high frequency and high accuracy in one tester platform. BCT-150 combines 3 modules 100A Cycler Module, High Frequency Signal Module and Coulombic Efficiency Module for a high precision and fully automated battery test system. User programmable with automatic switching between the modules. Powered by D&V electronics' advanced test system software, the BCT-150 is the ideal platform for the battery cell testing future.

Features

- Expandable up to 16 100A Cycler Modules, allowing for testing one battery up to 1600 Amps or 16 batteries at 100A.
- High Frequency & Ultra Precision Modules can be shared among all 16 Cycler Modules
- Provides an accurate method to determine important battery cell parameters
- Incorporates unique methods to predict the battery SoH and SoC, which can shorten the test duration significantly when compared to traditional aging tests
- Capable of performing a wide range of tests including Coulomb Counting, Electrochemical Impedance Spectroscopy (EIS), Drive Cycle and Life Cycle tests
- Electrochemical Impedance Spectroscopy testing (EIS)
 can be performed within a shorter period of time,
 because we can automatically switch between the 3 test
 modules 100 A Cycler Module, High Frequency Signal
 Module and Coulombic Efficiency Module

- Scalable and customizable system combined with user friendly software, allows for easy test customization and presentation of data
- Minimizes investment costs by sharing expensive test modules between independent battery channels

Technical Data Measured Parameters			
	Cycler	EIS	Columbic
Voltage Range	1 — 6 V	1 — 6 V	1 — 6 V
Max. Current	100 A	5 A	2 A
Parallel Connections	✓	×	×
Voltage			
Control Resolution	3 mV	3 mV	1.8 mV
Measurement Resolution	1 mV	1 mV	1 uV
Accuracy	± 0.02% FSR	± 0.02% FSR	10 ppm*
Current			
Ranges	5 A/25A/ 100A	5A	2 A/5 A
Control Resolution	2.5 mA / 12.5 mA / 100mA	2.5 mA	0.6 mA / 1.5mA
Accuracy	± 0.02% FSR	± 0.02% FSR	10 ppm*
Bandwidth	-	0kHz — 50kHz	-
General			
AC Input Voltage	230Vac 1ø		
Software Platform	BCT - PRO		





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