

SBS-200CT Battery Discharge Cycle Tester

Battery Charge and Discharge Cycle Testing with Downloading



The SBS-200CT is a discharge cycler for batteries' discharge and charge cycle. The voltage range of 2V – 96V covers all types of traction batteries (stationary, forklifts, automobile, golf cart, train, wheel chair, etc.). When equipped with an industrial charger (sold separately), the SBS-200CT can provide an unmanned discharge/cycling solution for your material handling needs.

Features

- Wide voltage range battery discharge from 2V to 96V
- Automatically run multiple discharge/charge cycles
- 5.7 inch LCD touch screen for easy operation and showing various parameters real time
- Adjustable stop points and multiple alarm designs to control the discharge and charge process intelligently
- **Parameters can be adjusted during discharge**
- 30 parameter presets for quick setup
- Supports RS232 real time monitoring by PC or USB download data after discharge
- PC software for capacity evaluation and report generation
- Can be used to test overall system voltage and individual cell voltages
- Wireless modules included (up to 40 cells) with other module package options available

Benefits

- Save money with unmanned warranty evaluations
- Increase run time in sulfated batteries
- Quickly identifies bad cells for replacement
- Extends battery service life
- Increases overall battery throughput – repair and service batteries quicker with per cell documentation
- Works with all chargers
- No need for multiple voltage dischargers
- Will verify charge and discharge battery performance



PC Analysis Software

- Data downloading and analyzing through real-time communication or USB memory devices
- The software interface includes: battery voltages curve and bar chart, battery resistances bar chart, group voltage curve, current curve, capacities histogram, data form, etc.
- Powerful capacity estimating function; the software can predict the capacity of each battery in the tested group
- Automatically create Excel data report

Standalone Discharge



Or, use with any charger to automatically cycle the battery:

Cycle



The SBS-200CT discharger will cycle through the charge and discharge cycles of the batteries multiple times while recording cell data unattended.

Test Range

Can support 2V to 96V battery groups:

Battery Nominal Voltage	Max Discharge Current
2 V	60A
4 V	120A
6/24 V	180A
12/36/48 V	200A
72/80/96 V	200A



Wireless Modules

- Wireless modules are included for collection of individual cell/battery voltage data during discharge
- For 1.2V and 2V batteries
- Each module is capable of monitoring up to 4 cells/batteries at a time
- Wireless technology eliminates having hundreds of feet of signal cables lying underfoot while performing testing
- Clips are detachable for easy replacement

Discharge Ranges

Voltage Range	Current Range
1.6 - 2.5 V	0-60A
3-6V	0-180A
6-120V	0-200A

Ordering Information

Part No.	Description
SBS-200CT	Battery discharge & capacity tester

Accessory Ordering Information

Part No.	Description
8400-600A	600 DC Current Clamp
BCT110/220 - 1000	1000 Watt Voltage Transformer 110/220 Vac 50/60 Hz
8400-SLAVE-CABLE	For operating in parallel with load banks of same voltage range



Portable packing case included

SBS-200CT Includes

- Main unit
- Wireless modules (qty. 10 +1 spare)
- PC analysis software
- DC test (power) cables
- Instruction manual
- Carrying case

Specifications

Current Measurement:	
Internal Current Range	0-200A
Accuracy & Resolution	</= ±0.5%, 0.1A
External Current Range	0-600A (optional current clamp)
Accuracy & Resolution	</= ±0.5%, 0.1A
Voltage Measurement:	
Group Voltage Range	1.6 - 120V
Accuracy & Resolution	</= ±0.5%, 0.1V
Cell Voltage Range	0-15V
Accuracy & Resolution	</= ±0.5%, 0.1A
Power Supply:	
Power Supply Voltage	110 Vac 220 Vac (optional)
Frequency	50/60 Hz
Power Consumption	500W (max.)
Communication & Storage:	
Communication ports	USB/RS232
Internal Memory	8MB Flash
Environment:	
Operation Temperature	-23° to 122° F
Storage Temperature	-40° to 158° F
Humidity	5% - 95% RH
Altitude	below 13,100 ft.
Working Noise	<60 dB
Dimensions & Weight:	
Main Tester	11.6 x 19.8 x 40 in.
Carrying Case	12.4 x 20.6 x 40.4 in.
Weight	121 lbs. (main tester only) 220 lbs. (tester, accessories, case)

For additional specifications and model details, please contact a Storage Battery Systems representative.