



SBS-8400 Battery Capacity Tester with Monitoring

10–300 Vdc, 0–120 Amp Constant Current Load Bank with Individual Cell Monitoring Capabilities

The SBS-8400 is a versatile and fully programmable constant current discharge load bank with detailed data acquisition and display capabilities. The unit features a user-friendly touch screen menu and a complete built-in data monitoring/acquisition system when paired with wireless modules and software.

Unlike basic load banks, the SBS-8400 is a high-tech solution for easy, efficient collection of data and generation of records for archiving.

Benefits

- Automatically discharges batteries unmanned without danger of over-discharging
- Individual cell monitoring capabilities via wireless modules
- Can be used on a variety of systems with lead acid and/or nickel cadmium batteries
- Test parameters are adjustable during test without stopping test
- Automatically protects and saves data from an unexpected test stop/end
- Easy to navigate unit menu and computer software
- Download data after discharge to USB drive
- Generates custom reports for trending, records and reporting with included software
- Can be slaved with other load banks to increase amp draw up to 720 Amps

Features

- Wide voltage and current range: 10–300 Vdc / 0–120 Amps
- Wireless module connection that measures and records individual cell voltages
- 5.7 in. LCD touch screen
- 30 parameter presets that can be adjusted during testing
- Selectable discharge mode: constant current (amps) / power (kW)
- 4 adjustable stop points and multiple alarm designs to control the process intelligently
 - Low system voltage: 0–250 Vdc
 - Discharge time: 0–99 Hour 99 Min.
 - Discharge capacity: 0–9999 Ah
 - Low cell voltage: 0–15.00 V
- View test data in real time on screen or with computer via RS232



Video available at
www.sbsbattery.com/videos



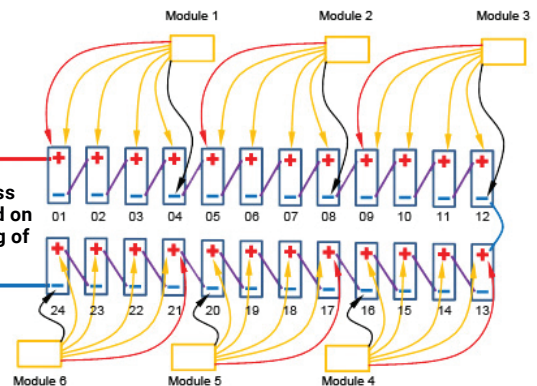
Touch Screen Menu

Applications

- Telecommunications
- Utility
- UPS
- Battery manufacturing
- Industrial maintenance
- Critical power
- Data center



Example of how the wireless modules would be installed on a 48 Vdc system consisting of qty. (24) 2 volt cells





Specifications	
DC Volt Range	10–300 Vdc
DC Current Range	10–15 / 150–300 Vdc: 0–60 Amps 15–150 Vdc: 0–120 Amps
Accuracy and Resolution	±1.0%, 0.1 Amp
Display	5.7" LCD Color Touch Screen
Power Supply	110 Vac
Communications Port	USB / RS232
Internal Memory	8MB Flash
Size (main unit)	9.0" x 14.5" x 27.0"; 53 lb.
Size (with case/acc.)	12.5" x 23.0" x 31.0"; 93 lb.

Computer Analysis Software

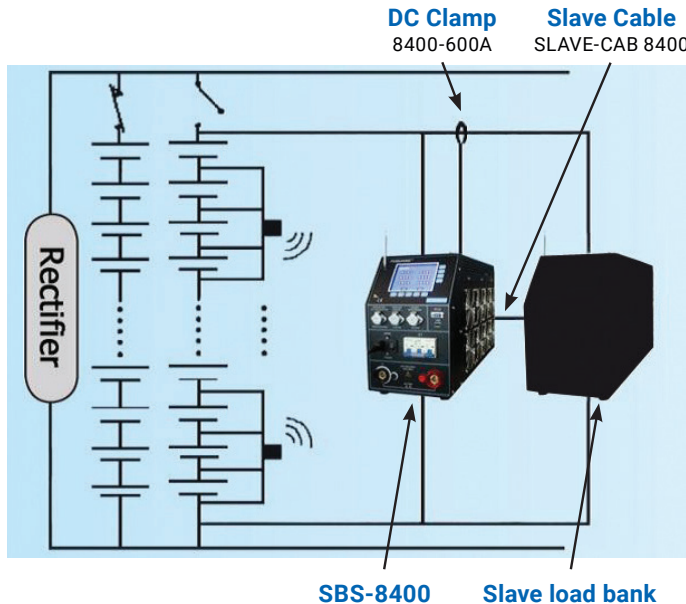
- User-friendly and easy to navigate
- Data downloading and analyzing through real-time communication or USB memory devices
- Software interface includes: battery voltages curve and bar chart, group voltage curve, current curve, capacities histogram data form, etc.
- Generate custom and detailed Excel reports with USB and software

Includes

- Main unit
- Instruction manual
- Computer analysis software
- 6 ft. DC cable set (pos. & neg.)
- 3 ft. AC cable
- RS232 wire
- Case with wheels



Portable case included



Paralleling Load Banks

The SBS-8400 has a 0–120 Amp current range; however, it is possible to parallel additional compatible load banks with the SBS-8400 to increase the current.

With the optional P/N 8400-600A DC clamp the user can discharge up to 720 Amps and the SBS-8400 will monitor the total DC current being drawn by up to two (2) additional load banks in parallel.

Ordering Information	
Part No.	Description
SBS-8400	0–300 Vdc, 0–120 Amp load bank

Accessory Ordering Information	
Part No.	Description
MODULE-1.2/2-25	1.2/2V Wireless module kit w/ case Qty. 25 (+2 spare)*
MODULE-1.2/2-30	1.2/2V Wireless module kit w/ case Qty. 30 (+2 spare)*
MODULE-2/6/12-15	2/6/12V Wireless module kit w/ case Qty. 15 (+2 spare)*
MODULE-2/6/12-30	2/6/12V Wireless module kit w/ case Qty. 30 (+2 spare)*
8400-600A	600 DC Current Clamp
SLAVE-CAB-8400>8400	Paralleling Cable, SBS-8400 to SBS-8400/SBS-4815
SLAVE-CAB-8400>S	Paralleling Cable, SBS-8400 to S-Series
SLAVE-CAB-8400>(2)S	Paralleling Cable, SBS-8400 to (2)S-Series
BCT110/220-1000	750 Watt Voltage Transformer 110/220 Vac 50/60 Hz



SBS Wireless Modules

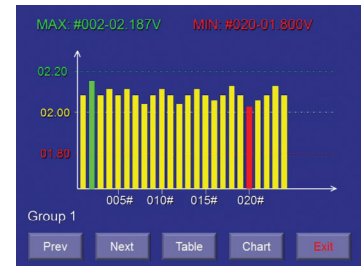
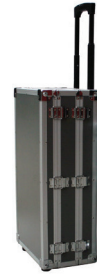
Individual Cell Monitors (Accessory for Compatible Battery Capacity Testers)

During capacity testing, the wireless modules measure each cell's voltage and wirelessly send the data back to the paired load bank. All voltage values are displayed on the load bank's LCD screen and listed in the test report, which is created with the computer software. Wireless modules make it easy to locate failed or problematic cells in the battery bank.

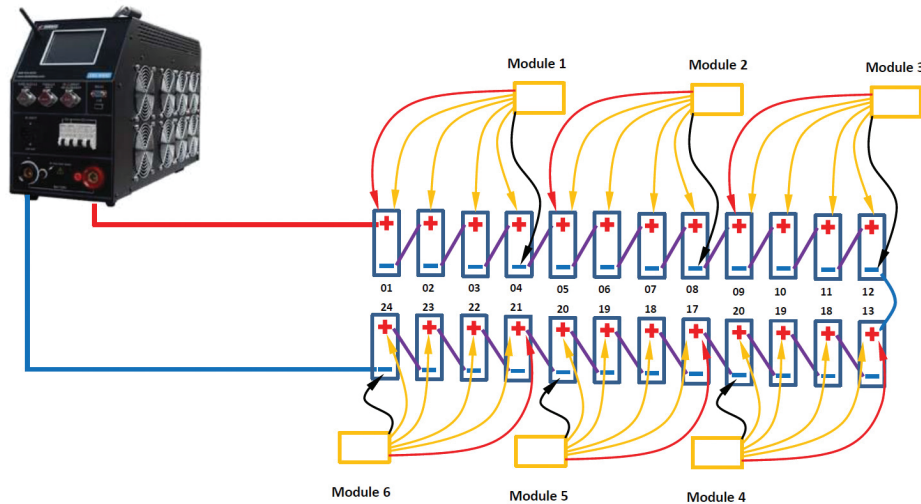


Features

- Real-time cell voltage measurement during discharge test
- Advanced technology that wirelessly communicates readings between modules and load bank
- Wide range for 1.2/2V or 2/6/12V battery applications
- One module supports voltage measurements for up to 4 cells
- Supports monitoring up to 120 cells/batteries in a single test
- Protective storage included



Voltage bar chart on load bank screen



Specifications		
Type	SBS-2/6/12	SBS-1.2/2
Support Cell Voltage	2/6/12V	1.2/2V
Wires	Six (1 Red, 1 Black, 4 Yellow)	Five (4 Red, 1 Black)
Power Supply Wire	Red & Black Operating Voltage: 5–24 V Max. Voltage: <400V	Red No. 1 & Black Operating Voltage: 3.5–20 V Max. Voltage: <60V
Measure Voltage Range	0–16 V for each channel	0–5 V for each channel
Accuracy and Resolution	±0.5%, 0.01 V	±0.5%, 0.01 V
Dimensions / Weight	3.9 x 2.6 x 1.3 in. (100 x 65 x 32 mm) / 0.66 lb. (0.3 kg)	
Operation Temp. / Storage Temp. / Humidity	23° to 122° F (-5° to 50° C) / -40° to 158° F (-40° to 70° C) / 5% – 95% RH	



Connection Drawings

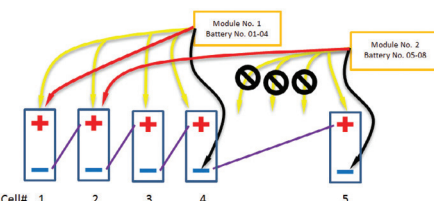
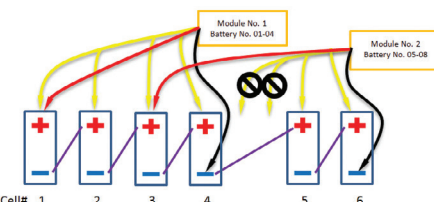
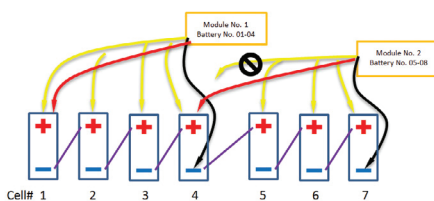
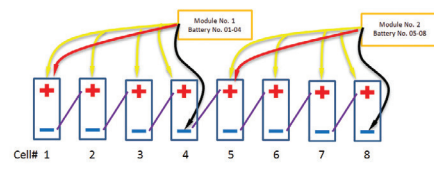
SBS-2/6/12
For Lead Acid Battery Monitoring



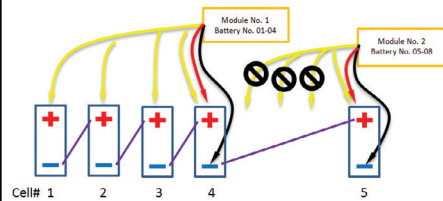
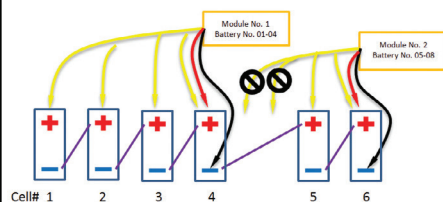
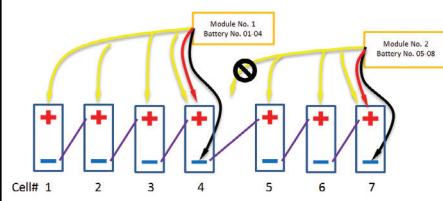
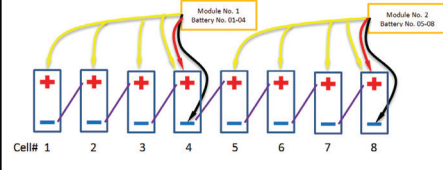
SBS-1.2/2
For Single-Cell Monitoring



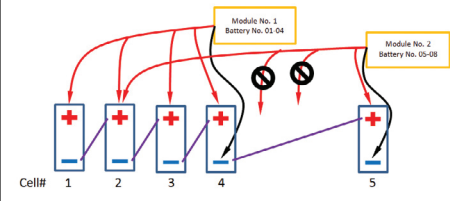
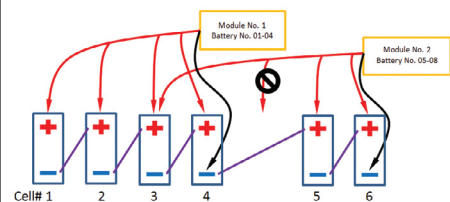
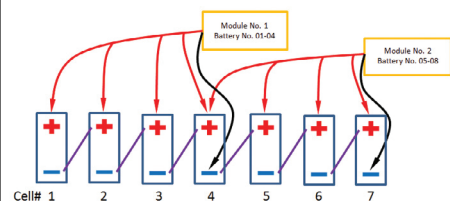
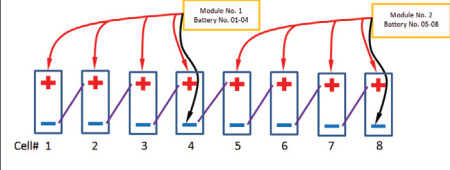
Monitoring 2Volt Cells with 2/6/12V Module



Monitoring 6 or 12V Blocks with 2/6/12V Module



Monitoring 1.2 or 2V Cells with 1.2/2V Module



Wireless Load Bank Module Kits Ordering Information

Battery Type	DC Voltages of Systems to be Tested	Module Package(s) Required (Part No.)	Qty. of Modules (+2 spares)
Lead Acid Only (2/6/12V)	12-125 Vdc 12-250 Vdc	MODULE-2/6/12-15 MODULE-2/6/12-30	15 30
NiCd/Single Cell LA Only (1.2/2V)	12-125 Vdc 12-250 Vdc	MODULE-1.2/2-25 MODULE-1.2/2-30	25 30