

GL-1000 Constant Current Electronic DC Load Tester

Battery Capacity Tester (1,000 Watts)



The SBS GL-1000 is a great tester for single cells or lower ampere hour battery systems up to 64 Vdc.

- Adjustable, constant current load
- 1.0V to 64.0V Range
- Parallel operation to enable increased load — up to four units
- Selectable Constant Current or Constant Resistance
- Weight: 11 lbs.

Voltage/ Loading Capacity:

Input voltage: 120/220 VAC; 60/50 Hz
 Maximum Loading Power: 1,000 Watts
 Minimum Loading Voltage: 1.0 VDC
 Maximum Loading Voltage: 64.0 VDC
 Maximum Loading Current: 200AH

Ordering Information

Part No.	Description
GL-1000	Constant current electronic DC load tester

Conversion Table Watts / Voltage = Current (Amps)		
Watts	Voltage	Max Current (Per Unit)
1000	64	15.6 Amps
1000	48	20.8 Amps
1000	36	27.7 Amps
1000	24	41.6 Amps
1000	12	83.3 Amps
1000	6	166 Amps
1000	2	200 Amps

Electronic Constant Current DC Load Testers

RBL Series Load Banks (0-600V and 0-1,000amps)



SBS RBL series load banks are ideal for testing large batteries, power supplies, fuel cells, and other related DC power equipment. The high-range current capability and constant power feature facilitate battery testing and analysis. The ultra-fast slew rate provides unmatched power supply transient testing capabilities. The ultra-low voltage, high current capability makes the SBS Electronic Load Tester a sound solution for any fuel cell requirement.

Battery Testing

The SBS RBL Series Load Tester is used to test batteries by analyzing life cycle and establishing the V/I characteristics. The load is operated in the constant current mode, which freezes one of the variables when calculating the battery's power level. Some batteries require exotic waveform testing in order to simulate real-life uses. This is accomplished by using the internal pulse generator. Many different waveforms can be created through the use of variable current levels, frequency, duty cycle, and slew rate. The load may be controlled through analog remote programming input for situations where the required waveforms are extremely complex. This input is directly proportional to the selected full-scale current of 0 to 10 volts.

The constant power mode is used to test batteries designed for UPS back-up systems. It simulates the changing current demand as the battery voltage decays, which are the characteristics of DC-to-DC converters and inverter input simulations.

Features:

- Ratings from 0-600 volts, 0-1,000 Amps, up to 4,000 watts in a single unit
- Units available in 50V, 100V, 400V or 600V:
 - 800 Watt (8"W x 5.25"H x 22"D)
 - 2,000 Watt (19"W x 5.25"H x 22"D)
 - 4,000Watt (19"W x 8.75"H x 22"D)
- Variable speed fans minimize fan noise
- Master/Slave paralleling
- Five modes of operation: Constant Current, Constant Resistance, Constant Power, Constant Voltage, Pulse Mode
- Synchronized paralleling for larger systems that are controlled simultaneously
- Programmable under voltage
- Internal pulse generator with variable slew adjustable for transient testing.