

SAGEON

SAGEON® Battery Monitor (SBM)

Know the Health of Your System

Introduction

The SAGEON Battery Monitor (SBM) is an add-on module for the SAGEON Family of DC Power Systems. It is used to monitor individual cells of a battery, or individual batteries of a monoblock, during float or equalization operation, or during a discharge.

Each SBM is capable of monitoring up to 24 cells or monoblocks and up to 4 SBM units can be combined to monitor up to four battery strings of 24 cells or monoblocks each. Using the remote communications ability of the SAGEON Power System Controller, cell voltage data accumulated during a discharge can be transferred to a remote computer and saved.

The cell voltages can be viewed in real time and the SageView software that is running on your PC displays the cell voltage data in various formats, providing you a snapshot of the health of your power system's batteries. In the event that a battery behaves less than ideal during a test or actual discharge, a number of preprogrammed parameter levels are used to generate alarms which are triggered on the controller, the SageView software, your remotely connected PC, Network Management Software or SCADA system.

Features & Benefits

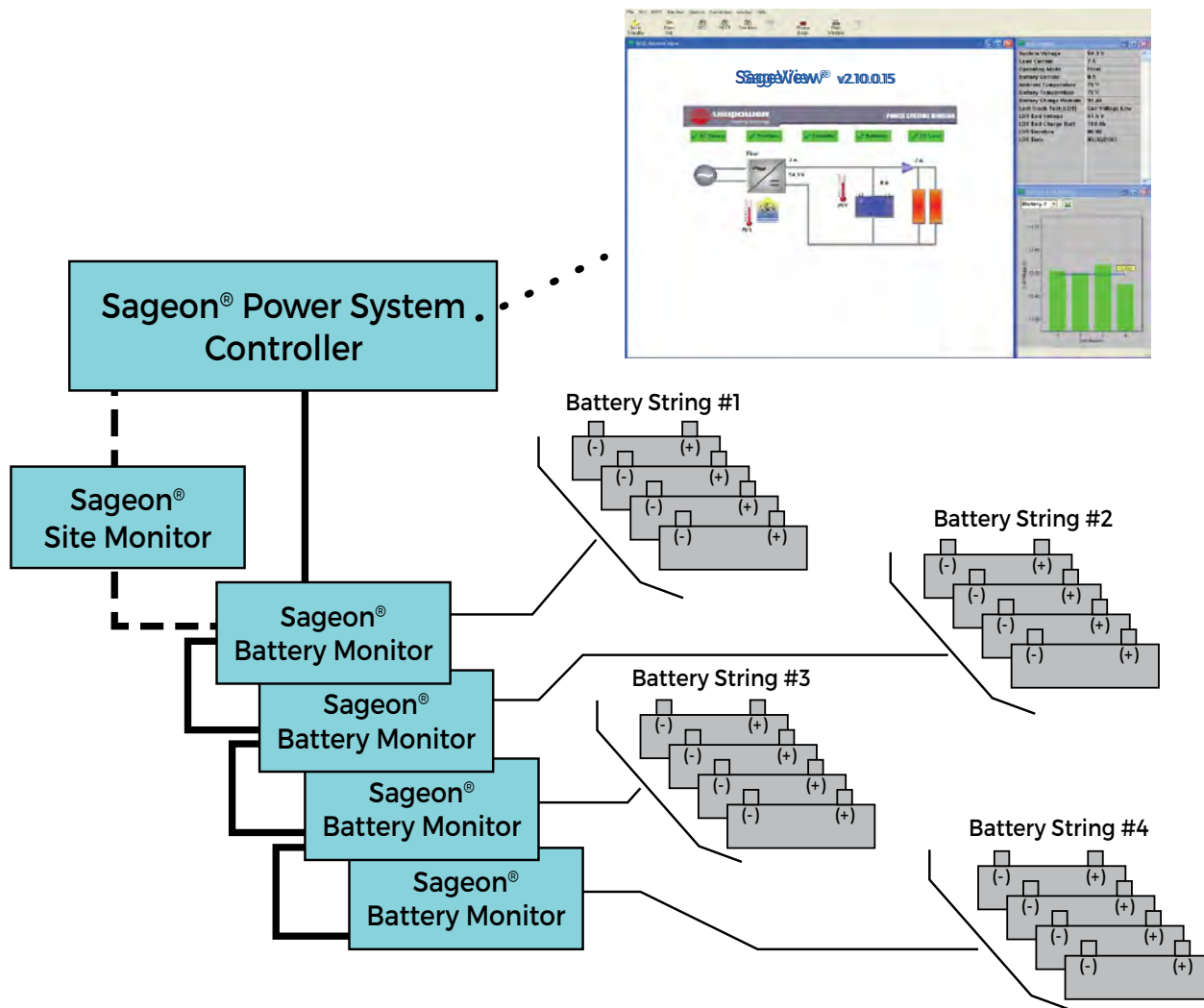
- **Real Time Data Display**
Real time cell voltages are displayed or cell voltages from a previous discharge
- **Remote Access**
Users can remotely monitor and store battery telemetry data, reducing trips to site and increasing uptime
- **Battery Testing**
Automatic or on-demand battery testing insures batteries are functioning properly and provides battery health statistics to system planners without affecting the existing system loads



Specifications

Battery configuration options	48V Systems 24Cell x 2V, 12Cell x 4V, 8Cell x 6V, 4Cell x 12V	24V Systems 12Cell x 2V, 6Cell x 4V, 4Cell x 6V, 2Cell x 12V
Maximum Battery Voltage	75VDC	
Number of Cells	24 maximum per SBM	
Number of battery strings per SBM	1, 2, 3 or 4 depending on configuration	
Cell Voltage selection	2V (max input: 3.33V) 4V (max input: 6.66V) 6V (max input 10V) 12V (max input: 20V)	
Accuracy	±0.5% of measurement. Drift for 1 year: ±10mV at 0°C to 40°C	
Resolution	5mV per cell (2V, 4V, 6V range), 10mV per cell (12V range)	
Sampling interval range for discharge log	1 - 60 minutes	
Maximum distance from SCU	100ft	

NOTE: "Cell" can mean both single battery cell or monoblock.



ABOUT GREEN CUBES TECHNOLOGY

Green Cubes Technology harnesses over 30 years of industry experience to ensure we design, develop and deliver solutions for the most challenging energy needs. We offer battery technology innovation, application design and performance management to drive productivity, scalability and sustainability.

Green Cubes provides complete power systems to the stationary power industry. With the addition of the Guardian and Aspiro Product lines offered under the UNIPOWER brand, these industry proven DC plant systems serve critical applications all around the world. Green Cubes offers complete power solutions including energy storage, power conversion, and seamless integration.

For more information, email contact@greencubes.com or visit greencubes.com

