

Wireless Battery Monitoring System

MONITOR • RECORD • REPORT • TREND



Battery Advisor

Online Powers Battery Advisor is designed to protect and enhance your investment in backup emergency power systems. Utilizing state of the art electronic "ohmic value" testing and monitoring, the Battery Advisor provides the added assurance that when emergencies happen, the power will be available when it's needed.

Incorporating wireless or wired components, the system is easy to install, easy to operate, and easy to maintain. Battery voltage, string voltage, string current, cabinet temperatures, battery terminal temperature and battery impedance are measured, stored and displayed in the touch screen Data Collector. The Battery Advisor is designed to detect impending failures long before they become an operating risk, and long before a technician might discover them during a routine maintenance check or during an emergency.

The Battery Advisor includes a Data Collector utilizing a touch screen interface, along with wireless and wired components designed for simplicity of installation and accurate reporting.

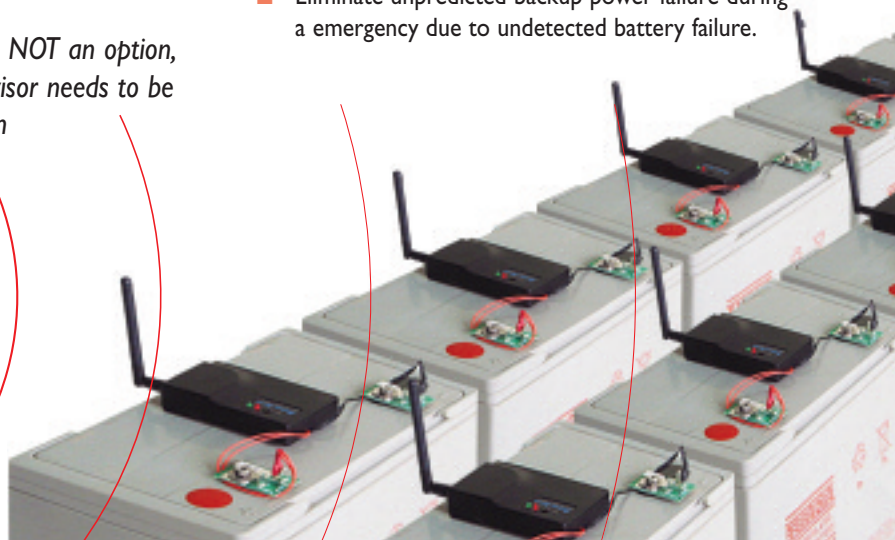
Touch Screen Data Collector



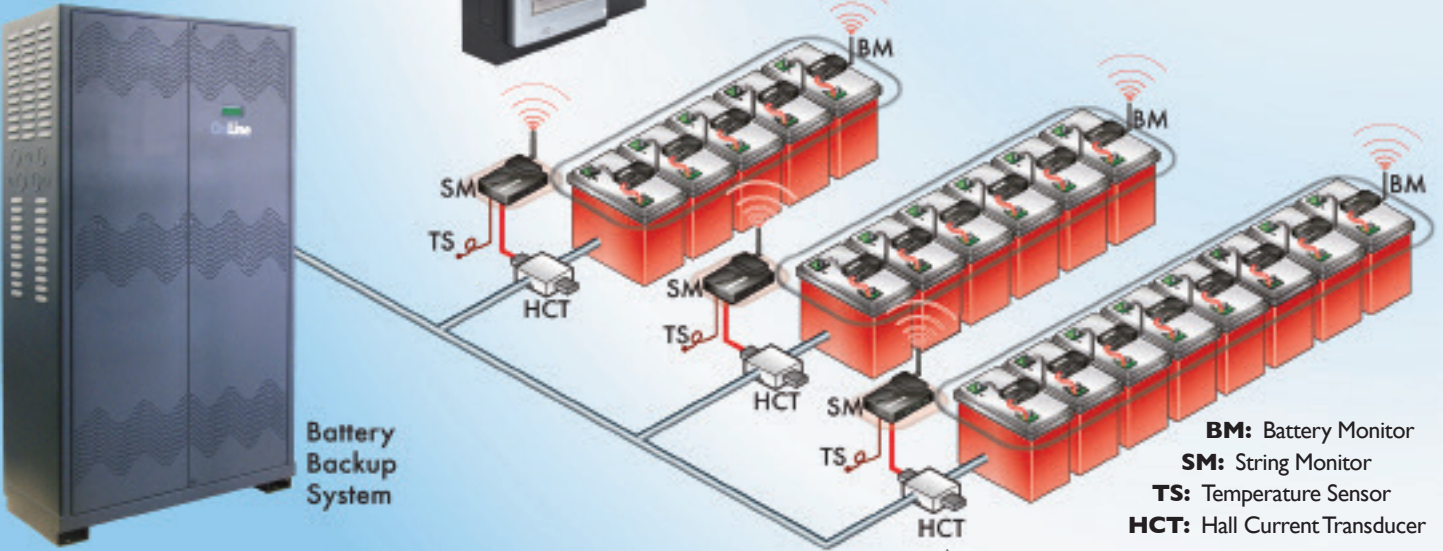
*When failure is NOT an option,
the Battery Advisor needs to be
part of the plan*

FEATURES:

- Measure and record battery voltage, string voltage, string current, cabinet temperature and battery impedance.
- User selectable measurements interval (second-hour-daily) monitors each battery's ohmic value
- Maximizing battery life of your investment
- Eliminate unpredicted backup power failure during an emergency due to undetected battery failure.



Battery Advisor System



Distance of Wireless: Up to 50m. (164ft.) for open site. Less than 30m (98ft.) is recommended.
Wireless Frequency: 2.4GHz
Operating Temperature: 0° to 100°C. (32° - 212°F)
Relative Humidity: <95% without condensing
Altitude: Up to 2,000 meters / 6,600 ft.

BM: Battery Monitor
SM: String Monitor
TS: Temperature Sensor
HCT: Hall Current Transducer

SM (String Monitor)

SM (String Monitor)		
Voltage	Range	Up to 750 V
	Accuracy	±0.2%
Current	Range	Up to 3000 A
	Resolution	±3%
Temp.	Range	32° to 212° F (0° - 100° C)
	Accuracy	±1.8° F
Input Power Supply	120V (provided by Customer)	
Power Consumption	3.0 Watt Max.	
Dimensions	4" W x 1" H x 2.75" D	
String Monitor is needed for each string of batteries. See ordering guide.		

Data Collector

Input Power Supply	120V (provided by Customer)
Power Consumption	18W, Max.
Max. Monitoring Kits	Ethernet TCP IP, RS485, Alarm Output Contact x1, External Trigger Contact x1
Display	6.4" LCD Touch screen
Store Media	SD/MMC Flash Memory Card
Dimensions	15" W x 9.8" H x 3.2" D
<ul style="list-style-type: none"> ■ Real-time Monitoring Information: Block Voltage, Battery Impedance, String Voltage, String Current, and Temperature ■ Chart: Curve, Bargraph, Average ■ Battery Test: Battery Voltage, Battery Impedance, Battery String Voltage, Battery String Current, Environment Temperature, Curve 	

BM (Battery Monitor)

Part # BMK (1 ea. per battery)

Battery Voltage		12V	
Voltage	Range	9 - 16V	
	Accuracy	±0.1%	
Impedance	Battery Capacity	<65Ah	<66Ah
	Resolution	0.01 mΩ	0.03 mΩ
Temp.	Range	32° to 212° F (0° - 100° C)	
	Accuracy	±1.8° F	
Power Consumption	0.5 Watt Max.		
Dimensions	4" W x 1" H x 2.75" D		

Ordering Guide

	Part #	Name	Description
*Data Collector	DTC	Data Collector	Collect all Data for each String or individual Battery or both (One is required per system).
**String Monitoring	SM	String Monitor	String Monitoring + Connection Accessories + Temperature Sensor
Battery Monitoring	BM	Individual Battery Monitor	Battery Monitoring module + Connection Accessories
	Antenna	Antenna	For additional room, separation (for touch screen to extend its range beyond 100 Ft)
Temp Sensor	BM-TS	Battery Monitor Temp. Sensor	Individual battery temp. sensor (if temperature reading is required per battery jar). Requires BM.

If Data Collector is located in separate room optional Antenna is available.

*Only one Data Collector is required per String Monitor or Individual Battery Monitor or both.

**SM is needed for each string of batteries.

Battery Facts

- Undetected battery failure is the leading cause of 75% of Battery Backup System failure.
- 95% of undetected battery failures occur after the battery warranty period expires.
- Quarterly maintenance alone is inadequate in critical applications.
- Any string of batteries is only as good as its weakest battery.
- Failing batteries can compromise the expected usable life of the entire string of Batteries
- Batteries near end-of-life have lost 20% of the original load capacity and 50% of their original runtime capacity.

Specification are subject to change without prior notification.

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