

BatteryDAQ Product Selection

Making battery maintenance efficient, affordable, and enjoyable is our job and pride!

Made in USA. State-of-art production facility and training center in Maryland, BatteryDAQ™ supports you to complete a battery monitoring project on time and within budget!

Backup Battery Application

Nominal Voltage	Battery Configuration	BMS Model	Notes
24V	12 x 2V	Sentry-1202	Telecom SOH, SOC, Runtime
	2 x 12V, 1 string	Sentry-NB4	Telecom SOH, SOC, Runtime
	2 x 12V, 1 or 2 strings	Sentry-NB8	Telecom SOH, SOC, Runtime.
	Genset 2x12V 1 or 2 strings	Sentry-GenPro	Cranking capacity CCA evaluation
	2 x 12V, 3 to 15 strings	Sentry-0212S15	Telecom SOH, SOC, Runtime
-48V	24 x 2V	Sentry-2402W2	Telecom SOH, SOC, Runtime
	4x12V, 1 string	Sentry-NB4	Telecom SOH, SOC, Runtime
	4 x 12V, 1 or 2 strings	Sentry-NB8	Telecom SOH, SOC, Runtime
	4 x 12V, 3 to 6 strings	Sentry-0412S6	Telecom SOH, SOC, Runtime
120V	60 x 2V	Sentry-6002NEMA	NERC Compliance BMS and Software
	90 x 1.2V NiCad	Sentry-6002NiCad Sentry-6002NEMA x 2 units	Up to 100 x 1.2V per unit Or use Sentry-2412 for every 4-cell
	30 x 4V	Sentry-6002NEMA-120-4V	Modified model for 30 x 4V.
	20 x 6V	Sentry-2412-120	Set to 20 channels with HMI
	10 x 12V	Sentry-2412-120	Set to 10 channels with HMI
240V	120 x 2V	Sentry-6002NEMA x 2 units	NERC Compliance BMS and Software
	180 x 1.2V NiCad	Sentry-6002NEMA x 3 units Sentry-6002NiCad x 2 units	Or use Sentry-2412 for every 8-cell
	20 x 12V	Sentry-2412	Set to 20 channels with HMI
288V	24 x 12V	Sentry-2412	
384V	32 x 12V	Sentry-4412HV	Set to 32 channels with HMI
480V	40 x 12V	Sentry-4412HV	Including less than 40x12V and 30x16V
528V	44 x 12V	Sentry-4412HV	Including 41, 42, 43x12V and 32x16V
576V	48 x 12V	Sentry-2412 x 2 units	Unit A (Ethernet) + B (Serial)

Product Information www.batterydaq.com Technical Support: tech@batterydaq.com Tel: 1-800-455-8970



Solar or Cycling applications

BatteryDAQ provides cost effective monitoring for solar/hybrid systems with proprietary cycling performance analysis for each battery.

Nominal Voltage	Battery Configuration	BMS Model	Notes
24V	12 x 2V	Sentry-2402C	Low cost version
	2 x 12V, 1 string	Sentry-NB4	Software setting for Cycling mode
	2 x 12V, 1 or 2 strings	Sentry-NB8	Software set to 1 or 2 strings
	2 x 12V, 3 to 15 strings	Sentry-0212S15C	Order with "C" for Cycling
-48V	24 x 2V	Sentry-2402C	Low cost version. NEMA enclosure for installation in wet-cell battery room.
	4x12V, 1 string	Sentry-NB4	
	4 x 12V, 1 or 2 strings	Sentry-NB8	
	4 x 12V, 3 to 6 strings	Sentry-0412S6C	Order with "C" for Cycling
120/240V	20 x 6V	Sentry-2512C	Lower cost than Sentry-2412
288/300V	10 x 12V, 20 x 12V		
	24 x 12V, 25 x 12V		
480 / 600V	40 x 12V	Sentry-2512C x 2 units	One Ethernet DTU-800 manages 8 units
	48 x 12V		
	50 x 12V		
Large ESS system	Any size	Customized solutions	To fit into existing layout. Cloud based data management system.

- 1) All models (except NB4/8) have a 4-pin port for HMI for service/calibration or permanent onsite display.
- 2) Battery Analyzer PC software is supplied and compatible with all models.
- 3) Master-800 dashboard manages up to 1,000 remote battery banks in secured private network.
- 4) Integration options: ①Modbus-RTU via RS232/RS485; ②Modbus-TCP; ③ SNMP; ④Database Query; ⑤Web page; ⑥API.
- 5) **NERC** Auto-fill Excel software is available for customizing battery service reporting for NERC compliance.
- 6) MyBattery cloud platform and Geo-map reporting are recommended for large scale Telecom/Utility applications.

Thermal Runaway Prevention

Battery Bank Voltage	24/36/48V (18 to 60V)	120/240/384/480/540V (100 to 600V)
Model	Sentry-FT (Telecom Version)	Sentry-FTHV (High Voltage Version)
Highlights	Implemented to top telecom carriers. Reliable temperature and float current monitoring and analysis to avoid false alarm. Easy installation and integration.	

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	Model	Max Batt. #	Notes	Typical Applications
	Sentry-NB4	4x12V, 1 string 4x6V, 1 string 2x12V, 1 string	ABS enclosure for tight spaces 5V LEM CT	Telecom cell sites, micro sites Cable/Broadband cabinets Traffic light backup power Solar powered radio stations
	Sentry-NB8	4x12V, 2 strings 4x6V, 2 strings 2x12V, 2 strings	Aluminum enclosure 5V LEM, 1 or 2 CTs	Compatible with 24V and -48V
Models listed below use +/-12V CT, default 300A (+/-600A peak). Please choose proper window size.				
	Sentry-S6	4x12V, 3 to 6 strings	Easy to install, clean wiring	Telecom sites, -48V with 12V blocks
	Sentry-S15	2x12V, 3 to 15 strings	Simplified wiring, 2 wires to each string	Telecom sites, 24V with 12V blocks
	Sentry-1202	12x2V	Precise internal resistance for high capacity	Telecom sites, 24V with high capacity 2V cells NiCad compatible
	Sentry-2402	24x2V	Precise internal resistance for high capacity 2V cells	Telecom plants and sites, -48V with high capacity 2V cells NiCad compatible
	Sentry-2412	24x12V, 20x6V NiCad multi-cell per channel	Powered by the battery bank	Medium-size UPS Utility (NERC) 120/240VDC Industrial DC up to 350V
	Sentry-4412HV	44x12V (max) 40x12V, 32x16V	Powered by the battery bank	Large UPS with 12V or 16V blocks
	Sentry-6002NEMA 6002NiCad	60x2V per unit NiCad 100x1.2V per unit	NEMA 4, IP65 grade Fiberglass or Steel enclosure available Vented or VRLAB	NERC Compliance Substations and Power Plants with 120VDC or 240VDC Bank Large UPS with 240x2V
	Sentry-FT Sentry-FT-HV	24/48V 100 to 600V	Thermal Runaway Detection Low drift CT	Telecom sites 24V/-48V system with 2V, 12V VRLA or NiCad
	Sentry-GenPro	1 or 2 strings of 2x12V or 2x6V	Cranking capacity (CCA) estimation RS485 Modbus	Genset Starter with 1 or 2 strings 2x12V or 2x6V
	Sentry-2402C Sentry-2512C	24x2V per unit 25x12V per unit	Working condition and SOH for each cell	Solar/Hybrid system Large scale energy storage system

