

# Canara Insight for Batteries

UNCOVER A BETTER UNDERSTANDING OF YOUR ASSETS AND OPERATIONS TO PREVENT FAILURES AND PROLONG ASSET LIFE

## PREDICTIVE ANALYTICS TO ENSURE UPTIME AND EXTEND ASSET LIFE

Accurate data from a comprehensive battery monitoring system is extremely valuable. This value is dramatically increased when qualified individuals are continually watching, assessing and interpreting the data. By combining state of the art prognostics tools and software systems, Canara enhances your operations by highlighting the information you need to focus on. We are able to analyze, track, and even predict, what is going to happen and when.

### Predict & Prevent vs. Risk & React

This requires diligence in gathering, trending, and interpreting data into actionable tasks which allows you to move to a predict & prevent condition-based maintenance model. By gathering core data in every facility, we can help you improve energy and operational efficiencies and ensure availability.

## OWNER OF LARGEST DATABASE OF BATTERY PERFORMANCE DATA IN THE WORLD

Data gathered on each and every battery is stored in a highly customized relational database system designed for battery monitoring data.

- 2 million+ batteries monitored to date and 2 billion+ data points trended
- Historical trending and performance by battery type, monitor and UPS
- Platform integrates predictive alarms and alerts

## EXPERT HUMAN ANALYSIS & RECOMMENDATIONS

Our team of seasoned experts interpret your data and predict battery related failures long before they happen. All data captured through our monitoring system is assessed against customizable predefined thresholds. Our analysts leverage over 20 years of expertise, IEEE standards and state-of-the-art predictive modeling tools to make informed assessments of your risk exposure. Recommendations, along with detailed commentary, are provided via the portal dashboard and included in weekly email reports.

- Context and trending distinguish issues
- Issue identification and resolution services
- Robust weekly reports outline critical tasks & provide conditioned-based corrective actions

## HARDWARE AGNOSTIC MONITORING SERVICE

Canara can interface with all major battery monitoring systems resulting in a single solution that can be accessed anywhere.

- Supports every major brand (Alber, BTECH, Canara, Cellwatch, PowerShield)
- Avoids the necessity to become an expert on multiple software platforms, hardware and tools for each manufacturer
- Synchronize data from multiple systems and locations
- Generate consistent consolidated reports regardless of monitoring hardware

## KEY SERVICE BENEFITS

- Mitigate the risk of downtime
- Extend battery life by up to 35%
- Support warranty claims based on unit life cycle data
- Avoid thermal runaway
- Reduce maintenance costs by up to 75%
- Gain consistent system visibility
- Avoid unexpected UPS load loss

"Canara lets us tap into its wealth of historical data on batteries. We have a solid point of comparison for our own battery reading, and we have a better basis for predicting future performance than our readings alone could provide."

— REGIONAL ELECTRICAL ENGINEER, CYTERA

## STANDARDIZATION AND INTEGRATION OF DATA IMPROVES VISIBILITY

Canara consolidated asset details and multi-level reporting provides the information your organization needs to make timely and accurate decisions.

### Canara Critical Power Analysis & Reporting

<b>WEEKLY TRENDING &amp; CORRECTIVE ACTION REPORTS</b>	Weekly reports provide alarm details and recommended actions, enabling stakeholders to properly plan pre-emptive maintenance, while avoiding costly emergency work orders.
<b>AGING ANALYSIS REPORT</b>	Detailed report that provides an estimate of the remaining operational life of a battery system. The report is based on a performance index rating that takes into account: system Ohmic rise, system age, number of batteries out of tolerance and number of batteries replaced.
<b>DATA CORRELATION REPORTS FOR HANDHELD TESTING</b>	Canara can perform periodic validation of data captured on hand-held devices against the data retrieved by the battery monitoring system. These reports correlate the different measures and ensure accurate recommendations for the disposition of batteries.
<b>ASSET MANAGEMENT TOOL</b>	Discover how your battery strings age over time and view the performance index ratings of each system to prioritize battery replacement across your portfolio and avoid budget surprises.
<b>EQUIPMENT ACTIVITY HISTORY</b>	Users can create work tickets to track all corrective and preventive maintenance activity performed on data center battery assets.
<b>CRITICAL POWER PERFORMANCE REPORT</b>	A comprehensive report presenting the power outage events (discharges) that were captured by the battery monitoring system are also available.
<b>CRITICAL SYSTEM REPORTS</b>	From commissioning reports to preventive and corrective maintenance reports, all delivered as interactive reports for one-click access to the information you need.

### Battery Asset Management & Forecasting

Predicting and preventing battery failure is where our service starts. We also provide annual and ad-hoc reporting as required of your battery assets which allows you to see the projected number of months of remaining service life expected for each battery string. This allows for you to budget for string replacements and eliminate most capital expenditure surprises.

### 7x24 Online Access to the Canara Insight Center

While our qualified team is watching and interpreting your information, you can easily access and evaluate the same trending data through the Canara Insight Center.

<b>BIRDS EYE VIEW</b>	Log in securely from any browser and access a map pinpointing the location of each system. Different colors quickly reflect the health status of the battery system. You can quickly zoom in on locations and access details for systems out of tolerance.
<b>CONTINUOUS MONITORING</b>	Retrieving the data from various power systems enables analysis of trends in performance across the key components of your power infrastructure. Based on installed on-site hardware, this includes individual battery voltage, impedance, temperature and AC ripple.
<b>ACCESS ANYWHERE</b>	Search and view data remotely through any web browser, on any device, from anywhere in the world.
<b>ALARM DETAILS</b>	Get the most recent status on specific batteries that are trending, critical, or replaced, including temperature, ripple alarms, discharges and float voltages, so you can identify any trouble spots.

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