OREON

OREON 7
AI Data Solutions

## Knowing Battery Analytics

Integrating smart diagnostics into battery monitoring systems can greatly improve energy efficiency. By leveraging data analytics and machine learning, these systems can identify performance trends and potential issues early on. This predictive maintenance approach allows for proactive interventions, minimizing downtime and ensuring that batteries consistently operate at their best. Keeping the systems running efficiently not only boosts performance but also optimizes energy consumption.

**High accurate algorithms with intelegence**

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OREON

# Discover the Power of BMS Solutions

## OREON 7
Battery Monitoring System

A Product of

capeserve energy

www.oreonenergy.com

# Revolutionizing Battery Monitoring with Oreon7

The Oreon 7 battery monitoring system is a sophisticated electronic device designed to optimize the performance, safety, and longevity of batteries. By continuously monitoring and analyzing various key parameters, it provides valuable insights and alerts to users, ensuring reliable and efficient battery operation.

## Battery Parameters Monitored

**Cell Voltage**

Records Individual voltage of the battery with high-tech measurement methods

**Cell Impedence**

Accurately measures the Internal resistance of the battery with various advanced algorithms.

**Cell Temperature**

Measures the cell temperature at every instance of negative polarity foe each battery.

**String Voltage**

Measures the string voltage of the System.

**String Current**

Measures the String level current. The String current defines the profiling of the states of the system.

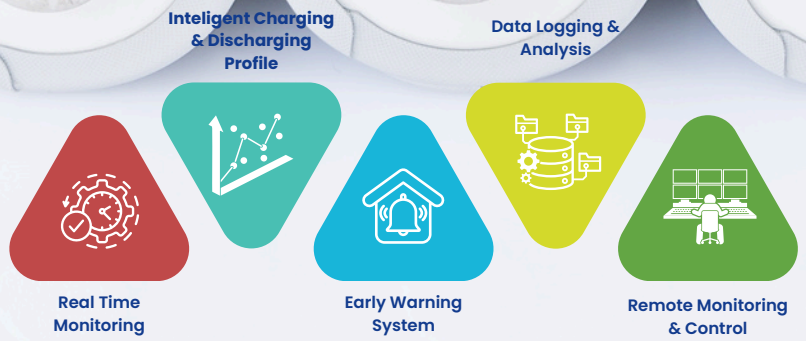
**Ambient Temperature**

Measures the ambient temperature of the battery room at specific point.

**SOC & SOH**

Provides the strong insights of battery state of charge and state of health by advanced computations.

## BMS Features




## BMS Benifits

**Downtime Prevention**

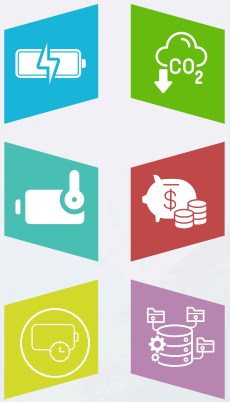
Production stoppage reduced, increase in safety and higher savings on annual preventive maintenance

**Thermal Runaway Prevention**

Prevents hazardous situations like overcharging, over-discharging, overheating, or short-circuiting. Monitors and mitigates risks such as thermal runaway

**Increase Shelf Life of Battery**

Monitors and controls charging cycles to minimize degradation. Maintains cells within safe operating parameters, reducing wear and tear



**Minimizing Carbon Footprint**

The assigned support team or individual investigates the reported issue or fulfills the requested service.

**Cost Savings**

Reduces long-term costs by prolonging battery life and improving energy efficiency.. Prevents the need for frequent replacements or emergency repairs.

**Data Logging & Analytics**

Tracks battery performance metrics over time.. Aids in diagnosing faults, identifying trends, and optimizing usage patterns.

### Alarms & Notifications

- System related alarms
- Battery voltage alarms
- String voltage alarms
- Communication alarms
- General status alarms
- Alarm Summary
- SoC-S0H Alert

### Communications

- MODBUS RTU/RS
- SNMP
- TCP/IP (optional)
- Dry Contact
- DNP3 (optional)
- IEC 61850 (optional)

### Software

- Windows 10 Support
- User friendly dashboard
- Realtime data & storage
- Statistics graph, trending
- Data Analytics (Optional)

### Support Solutions

- On-Call Troubleshooting & Analysis
- Site based support
- Customized Reports
- Anual maintenance solutions
- AI Chat-Bot Support (optional)



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