

Energy Storage Management System (ECO-EMS)

Brief

The ECO-EMS series products are integrated EMS designed for ESS scenarios, enabling real-time monitoring to meet the requirements of comprehensive operation monitoring, ensuring the safe, reliable, and cost-effective operation of ESS. Adopting an integrated architecture design, the system is suitable for user-side ESS, microgrid and PV-plus ESS and more. It ensures that the system operates optimally at all times, maximizing overall benefits and shortening ROI.

Features



Smart O&M

Support 4G network access to achieve intelligent O&M both on site and cloud.



Stable and Reliable

Bus monitoring and bus wake-up, support the parallel operation of up to 10 integrated units, auto-networking, mutual backup operation between APP and nodes.



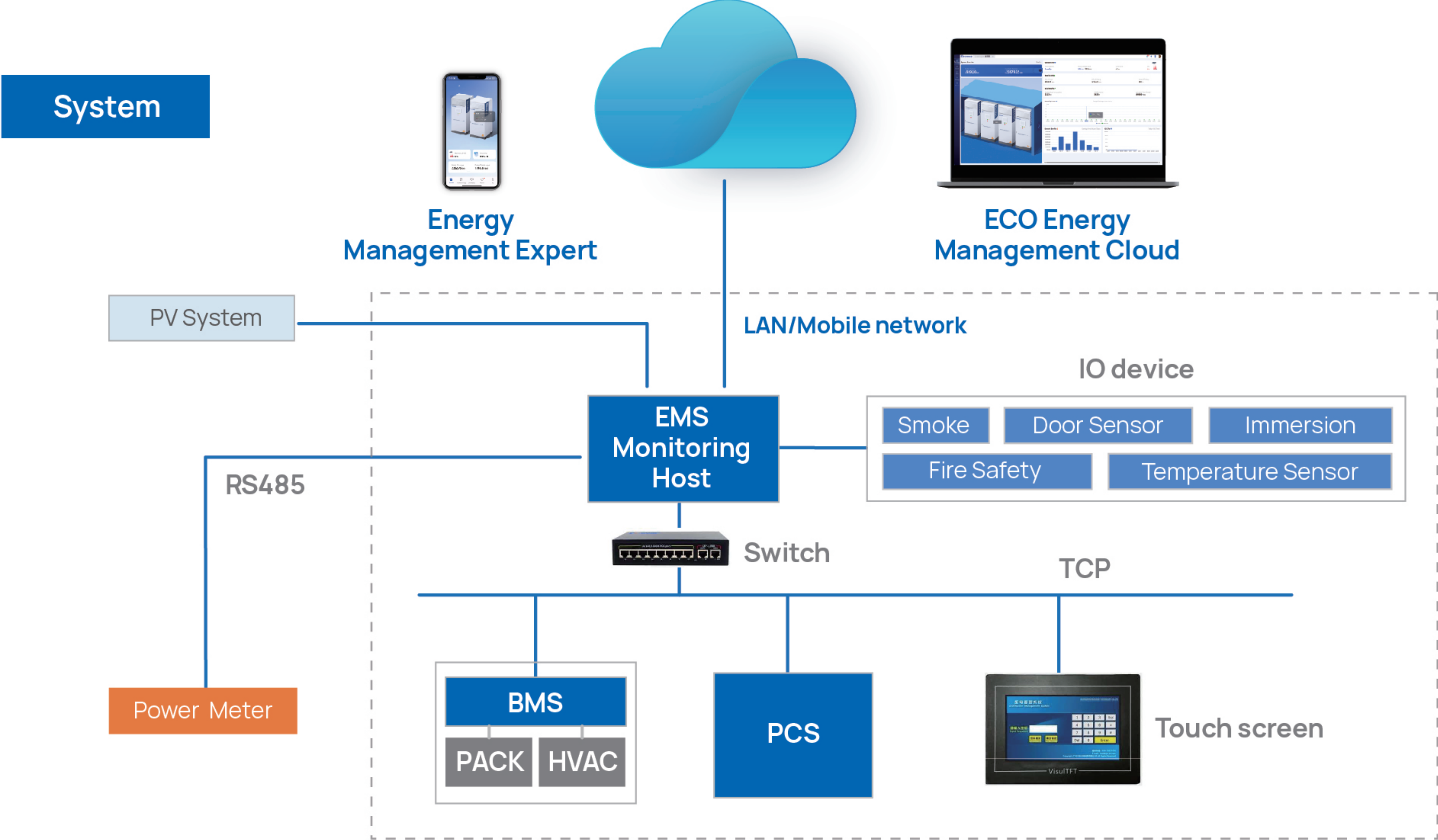
Diverse Integration

Support real-time power control, load tracking, demand management, and charge/discharge planning strategies, integrate with distributed power generation equipment, support coordination control of PV-ESS, and distributed consumption and other operation modes.

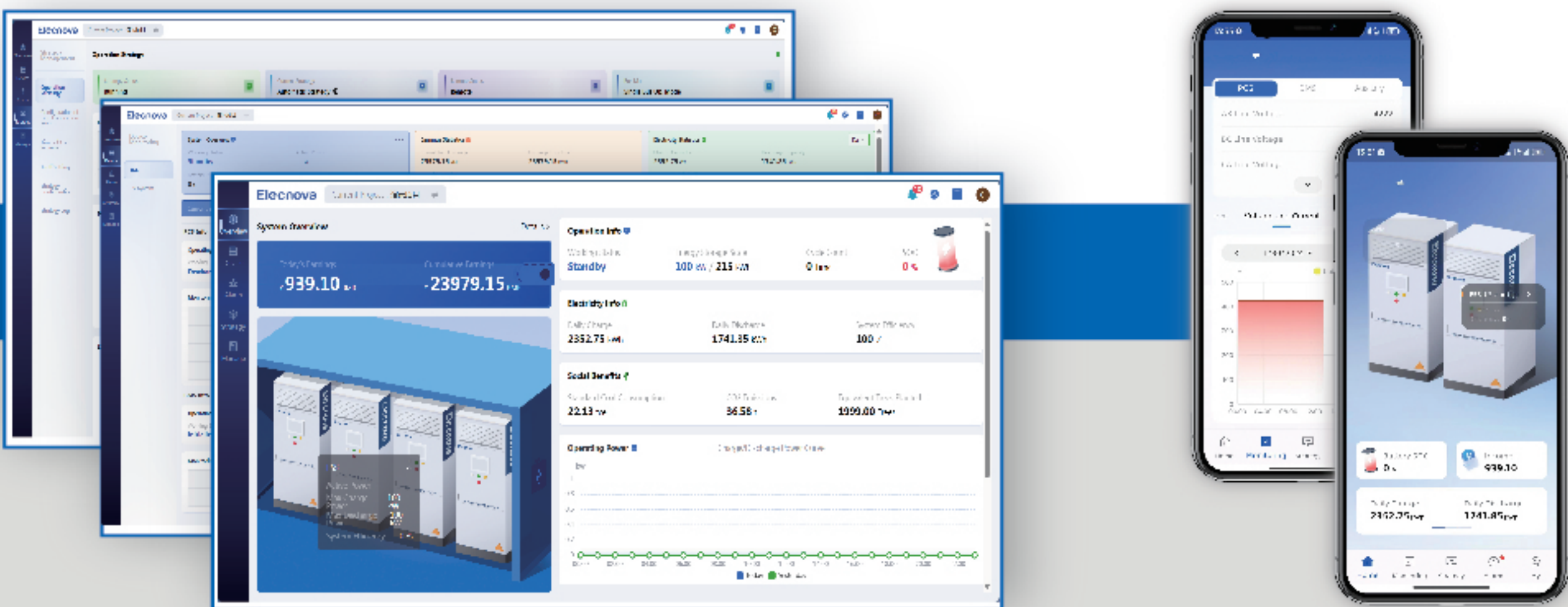


Self-adaptive Operation

Flexible arrangement of single-/dual-bus during parallel operation, identify the bus operation mode to achieve adaptive operation of multiple units, ensuring the safety of line operation.



Functions



System Monitoring

Real-time monitoring of the operating status of PCS, BMS, air conditioning, access control, fire protection equipment, smoke sensors, immersion sensors, temperature and humidity sensors, and other devices.



Intelligent Alarms

Various notification methods, help customers quickly address operational abnormalities and ensure reliable system operation.



Peak Shaving

Adapt charge and discharge strategies to achieve energy arbitrage.



Demand Management

Smooth the electricity load through charge and discharge strategies, reduce peak power & maximum demand, and lower the customer's electricity cost.



Time Shifting

Intelligent prediction of new energy generation, maximizing the self-consumption utilisation of PV and reducing customer electricity costs.



Remote O&M

Remote fault diagnosis and maintenance, reducing equipment downtime and safety risks, improving operation efficiency, and reducing maintenance costs, ensuring system stability.



SOH Analysis

Collect data such as cell voltage, total current, SOC, and accurately assesses the battery's health status based on cloud.



PV-ESS Coordination

Accurately predict electricity loads and intelligently control the output of PV generation and ESS, improving power supply reliability.