

Single-Cluster Cabinet Energy Storage BMS

Compatible with GB/IEC/EN 261/418 kWh Single-Cluster ESS

±3mV

Sampling Accuracy

1500V+

Reinforced Insulation

- Air Pressure Measurement
- High-Speed Data Synchronization
- CAN FD Communication
- Reinforced Insulation Design
- 1500 V+ High-Voltage Support
- AI Algorithms



56S 5610-P2-V2.2 BMU



BCU

Certifications



Product Introduction

One-Cluster, One-Management BMS for Single-Cluster Cabinet Energy Storage Systems. Integrates battery and environmental management, features AI computing, and enables easy installation.

Application Scenarios

BMS features a two-tier master-slave architecture that manages battery charging and discharging, thermal control, safety alerts, and auxiliary systems such as water detection, access control, and fire protection.

System Features



Two-Tier Architecture



56-Cell Voltage Acquisition and N+2 Temperature Acquisition



Integrated Battery Management and Environmental Monitoring



AI Edge Computing with SOE/SOH Estimation

Customer Value

Immersion Fire Protection- Intrinsically Safe



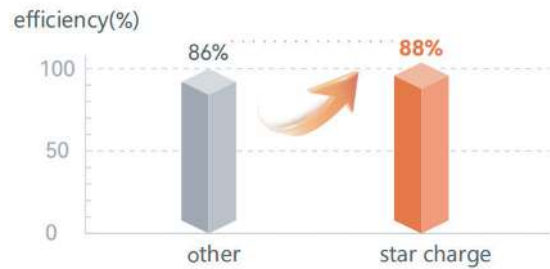
Continuous low-temperature immersion fire suppression enables second-level fire control within seconds, ensuring inherent system safety through both pack-level and system-level technology.

Automatic Charging & Discharging - Convenient



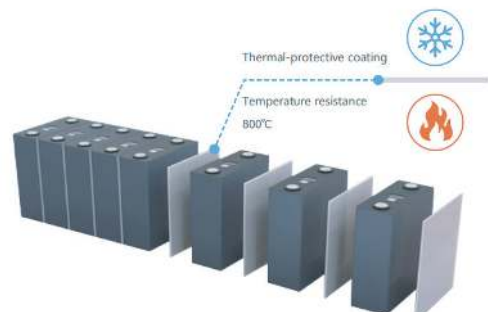
Cloud-edge-end predictive scheduling improves energy utilization, increases green power use by 10%, and boosts microgrid yield by 6%.

High Efficiency – 88%



Full-stack, multi-level topology with low-loss PCS technology increases efficiency by 2% over average, generating additional revenue of \$26,000 over 6,000 cycles.

One-Core, One-Management – Extended Lifespan



Self-developed BMS with one-core-one-management supports 10,000 cycles, extending lifespan by 25% compared to industry average.

Success Stories

Industrial Park Project



Technology Park II Project

