DISCOVER
ENERGY SYSTEMS

AiONE 266

Outdoor All-In-One C&I Energy Storage Cabinet

A commercial solution for grid-interactive applications

Integrated all-in-one architecture

Combines battery storage, bi-directional PCS, EMS, thermal management, and fire protection into a single cabinet to simplify deployment and reduce system complexity.

Turnkey installation design

Supports faster project execution with fewer external components and simplified system coordination.

Grid-tied energy optimization

Designed for peak shaving, demand charge reduction, time-of-use shifting, and energy cost management applications.

Built-in thermal management and fire protection

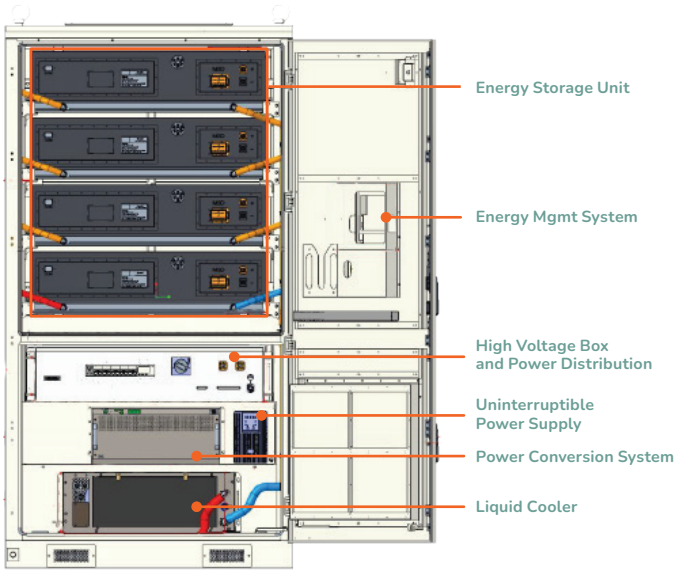
Built-in liquid cooling, heating, and fire protection systems support reliable operation and simplified project planning.

Scalable commercial energy storage platform

Suitable for commercial, industrial, and community-scale energy storage deployments requiring repeatable system architecture.

The AiOne 266 combines energy storage, PCS and EMS into an easy-to-install package for grid-interactive applications.

TECHNICAL SNAPSHOT



SYSTEM SPECIFICATIONS

Part Number	CAIO-266
Battery Chemistry	Lithium Iron Phosphate ($LiFePO_4$)
Nominal Energy Capacity)	266 kWh
Usable Energy Capacity (Usable)	260 kWh
System Nominal Voltage	832 VDC
Cell Capacity (Usable)	314 Ah
Integrated Inverter	Bidirectional Power Conversion System
Continuous Power	125 kW (3W+PE | 3W+N+PE)
Integrated EMS	Time-of-Use Energy Shifting, Maximum Demand Management, Power Setpoint Control, Zero Export / Export Limitation, Multi-Cabinet Parallel Operation
Communications	WAN / LAN / 4G / RS-485 Cloud Monitoring
Scalability	Easily scales to 500 kW / 1 MWh with no additional equipment required.
Product Dimensions (W × D × H)	1,175×1,300×2,230 mm (46.3×51.2×87.8 in)
Net Weight	2,730 kg (6,020 lb)
Material & Finish	Corrosion-resistant painted steel
Thermal Management System	Integrated liquid cooling system
Fire Protection	Fire suppression and deflagration
Operating Conditions	–20 °C to +55 °C (–4 °F to 131 °F)
Ingress Rating	Outdoor cabinet, IP54
Noise Level @ 1 m	≤ 75 dBA @ 30 °C
Certifications	UN38.3, IEC 62619

APPLICATIONS

Peak shaving & cost optimisation. Reduce peak demand charges and shift consumption.

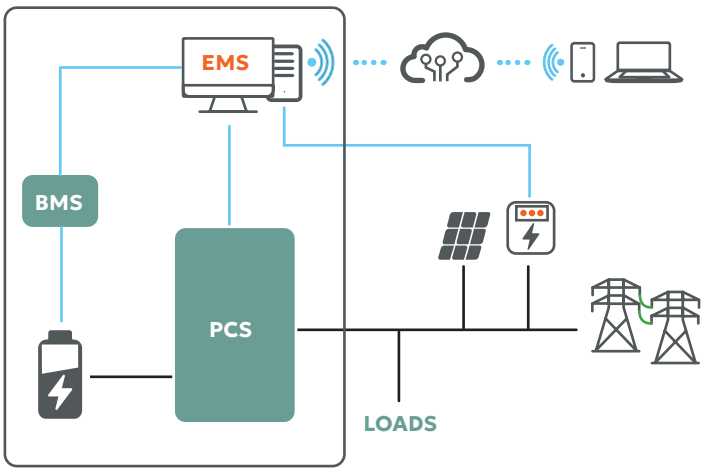
Demand response & FCAS/VPP participation. Earn revenue by providing frequency regulation and demand response services.

Backup Power & Resilience. UPS-grade support for critical loads during outages.

Renewable integration & microgrids. Store excess solar or wind energy for off-grid or hybrid microgrids.

EV fleet & depot charging. Supply 125 kW per cabinet for bus/truck charging; parallel cabinets for >500 kW.

Capacity deferral & grid expansion. Support network operators by deferring transformer upgrades.



- **BMS:** Battery Management System
- **EMS:** Energy Management System
- **PCS:** Power Conversion System

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