BUY AMERICA
BA COMPLIANT

evesco
ELECTRIC VEHICLE ENERGY STORAGE COMPANY

ES-125233-NA
125 kW 233 kWh BESS

All-in-one energy storage. Fast to deploy. Built to scale.

ELECTRIC VEHICLE ENERGY STORAGE COMPANY

System Features

All-in-One, Ready to Deploy

- Combines battery and PCS in a single enclosure to cut install time, reduce footprint, and simplify logistics from factory to field.

Modular and Scalable

- Its modular architecture allows the system to scale effortlessly with your energy needs, providing a flexible and cost-effective path to grow capacity without replacing core infrastructure.

Built-In EMS Intelligence

- Integrated EMS delivers local and remote system control, predictive maintenance, and real-time performance optimization.

Compact Capacity, Maximum Output

- High-density lithium cells deliver strong capacity in a small format, ideal for sites with limited space and high energy demands.

Thermal Precision Cooling

- Advanced liquid cooling actively manages thermal conditions, ensuring consistent performance, safety, and longer battery life in any environment.

Flexible, Application-Ready Design

- Adaptable system design supports a wide range of applications, from backup power to peak shaving, ensuring performance across diverse site requirements.

Buy America Compliant

- Fully compliant with Buy America (BA), supporting U.S. infrastructure initiatives without sacrificing quality or performance.

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System Specifications

SPECIFICATIONS	
	BATTERY SPECIFICATIONS
MODEL NUMBER	ES-125233-NA
BATTERY CHEMISTRY	Lithium Iron Phosphate
CELL TYPE	3.2 V / 314 Ah
MODULE CONFIGURATION	1P52S
SYSTEM CONFIGURATION	5 Modules in series
CAPACITY	233 kWh
NOMINAL VOLTAGE	832 Vdc
OPERATION VOLTAGE RANGE	761 - 923Vdc
DISCHARGE DEPTH	90% DoD
THERMAL MANAGEMENT METHOD	Liquid cooling
THERMAL CONTROL	Aerosol Extinguishing
	AC OUTPUT SPECIFICATIONS
RATED AC OUTPUT POWER	125 kW
MAX AC OUTPUT POWER	137.5 kVA
RATED OUTPUT VOLTAGE	480 Vac
OUTPUT VOLTAGE RANGE	408 - 528 Vac (settable)
RATED GRID FREQUENCY	60 Hz
MAX OUTPUT CURRENT	165.4 A
POWER FACTOR	>0.99
THDI	≤3%
	GENERAL SPECIFICATIONS
COMMUNICATION INTERFACE	CAN, RS485, Wi-Fi, LTE
CERTIFICATION	IEC62619, UL1973, UL9540A, UL9540, EN 61000-6-1/2/3/4, EN 62109-1/2, UN38.3
IP RATING	IP54
OPERATING TEMPERATURE	-4°F (-20°C) to 131°F (55°C)
OPERATING HUMIDITY	0 - 95%
NOISE LEVEL @ 1 METER (3.28 FOOT)	<75dB
DIMENSIONS W x D x H	1100 x 1450 x 2320 mm 43 x 57 x 91 in
WEIGHT	~ 2860 kg ~ 6305 lb

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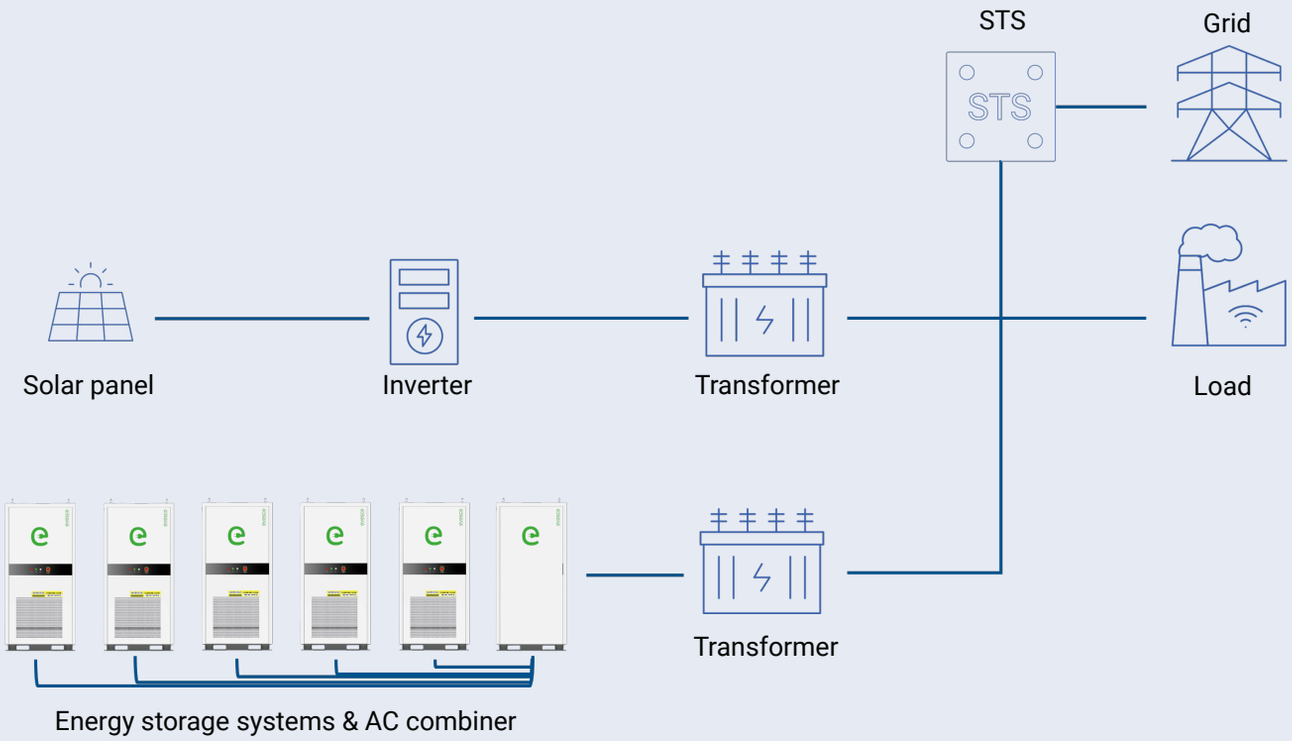
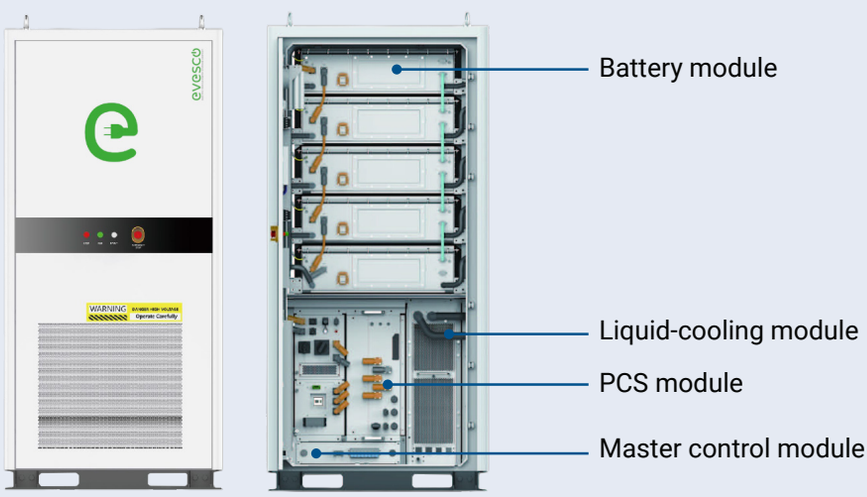
System Deployment Example



System Layout



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Integrated Energy Management System (EMS)

Smarter Control. Greater Uptime. Total Visibility. EVESCO's advanced EMS is engineered for real-time energy intelligence, empowering operators with control, insight, and automation at every level of the system. Whether on-site or in the cloud, you get precision management, proactive alerts, and unmatched flexibility.

Real-Time Monitoring & Alerts

- Continuously tracks battery health, cooling, PCS, fire suppression, and system performance. Enables instant alerts and data-driven decision-making.

Enterprise-Grade Security

- Multi-layered cybersecurity architecture with encryption, user access control, and audit trails to protect critical infrastructure and data integrity.

Scalable, Modular Architecture

- Supports cabinet-level to station-level EMS deployment. Easily add new systems or expand capacity without reconfiguring your control strategy.

Proactive Maintenance & Diagnostics

- Delivers predictive insights and fault detection to reduce downtime, streamline service cycles, and maximize asset life.

With EVESCO's EMS, you don't just store energy, you manage it with confidence, precision, and real-time visibility.

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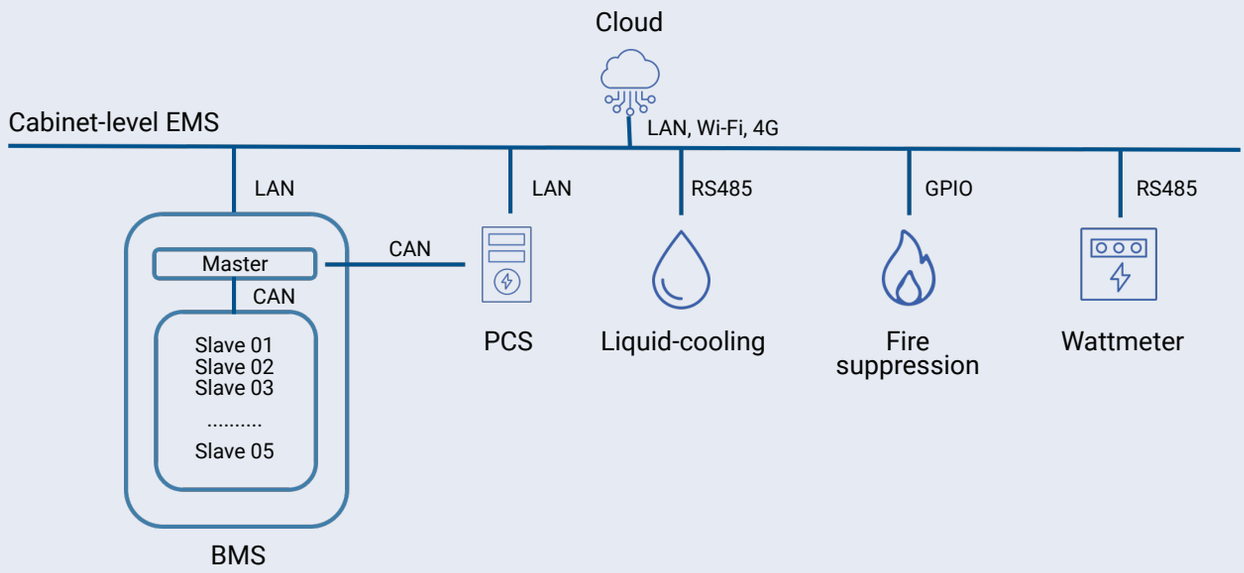
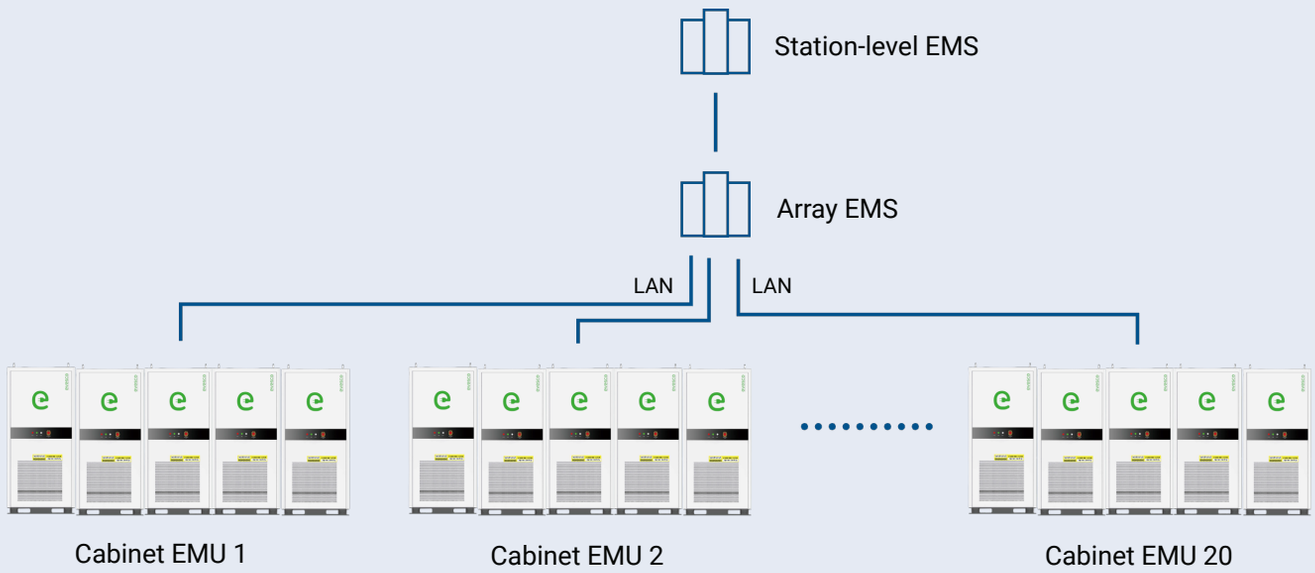
EMS Structure



Example



Ready to take control of your energy strategy?
Contact us at evesco@power-sonic.com to explore how EVESCO can accelerate your storage goals.