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BABA COMPLIANT

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ELECTRIC VEHICLE ENERGY STORAGE COMPANY

DISTRIBUTED ENERGY STORAGE

Scalable, intelligent energy storage built for today's demands and tomorrow's growth.

ELECTRIC VEHICLE ENERGY STORAGE COMPANY

System Features

Precision Liquid Cooling

- Actively regulates battery temperature for superior performance, safety, and battery longevity, even in high-demand, mission-critical environments.

Modular & Scalable Architecture

- Expand capacity as needed without replacing infrastructure, supporting growth while minimizing capital expenditure and deployment complexity.

Built-In EMS with Real-Time Control

- Integrated Energy Management System delivers real-time monitoring, smart automation, and cloud/local control for optimized performance across all subsystems.

Intelligent Diagnostics

- Intelligent BMS continuously monitors health and usage, enabling predictive servicing, reducing downtime, and maximizing uptime.

High-Density, Long-Life Storage

- Lithium iron phosphate cells deliver high energy density, safety, and an extended cycle life, ideal where space is limited and uptime is critical.

Flexible Electrical Integration

- Seamlessly integrates with diverse PCS and grid types, streamlining deployment across commercial, industrial, and utility-scale environments.

BABA Compliant DC Block

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

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System Specifications



SPECIFICATIONS			
	BATTERY SPECIFICATIONS (DC BLOCK)		
MODEL NUMBER	ES-1672DC-NA-BABA	ES-3344DC-NA-BABA	ES-5016DC-NA-BABA
BATTERY CHEMISTRY	Lithium Iron Phosphate		
CELL TYPE	3.2 V / 314 Ah		
MODULE CONFIGURATION	1P104S		
STRING CONFIGURATION	1P416S		
NUMBER OF BATTERY SYSTEMS	1	2	3
NUMBER OF STRINGS	4	8	12
CAPACITY	1672 kWh	3344 kWh	5016 kWh
NOMINAL VOLTAGE	1331.2 Vdc		
OPERATION VOLTAGE RANGE	1218.88 - 1476.8 Vdc		
DISCHARGE DEPTH	90% DoD		
THERMAL MANAGEMENT METHOD	Liquid cooling		
THERMAL CONTROL	Aerosol Extinguishing or PFH		
	CONVERTER SPECIFICATIONS (AC SIDE)		
MODEL NUMBER	ESAC-840-NA	ESAC-1670-NA	ESAC-2600-NA
RATED AC OUTPUT POWER	840 kVa	1670 kVa	2500 kVa
MAX AC OUTPUT POWER	860 kVa	1725 kVa	2580 kVa
OUTPUT VOLTAGE RANGE	11 kV - 33 kV		
RATED GRID FREQUENCY	50 / 60 Hz		
AC POWER FACTOR	0.99 / -1~1		
THDI	≤3%		
	GENERAL SPECIFICATIONS		
COMMUNICATION INTERFACE	CAN, RS485, Ethernet		
CERTIFICATION	IEC62619, IEC62477, EN61000-6-2/4, UL9540A, UL9540, UN3536		
IP RATING	IP54		
OPERATING TEMPERATURE	-22°F (-30°C) to 131°F (55°C)		
OPERATING HUMIDITY	≤95%, No condensation		
NOISE LEVEL @ 1 METER (3.28 FOOT)	<75dB		
BATTERY SYSTEM DIMENSIONS W x D x H	2991 x 2438 x 2591 mm 117.8 x 96 x 102 in	2991 x 4952x 2591 mm 117.8 x 195 x 114 in	2991 x 7466 x 2591 mm 117.8 x 294 x 102 in
BATTERY SYSTEM WEIGHT	~ 15000 kg ~ 33069 lb	~ 30000 kg ~ 66139 lb	~ 45000 kg ~ 99208 lb
CONVERTER SYSTEM DIMENSIONS W x D x H	6058 x 2438 x 2896 mm 238.5 x 96 x 114 in		7600 x 2200 x 2553 mm 229 x 86.6 x 100.5 in
CONVERTER SYSTEM WEIGHT	~ 25000 kg ~ 33069 lb		~ 20000 kg ~ 44092 lb

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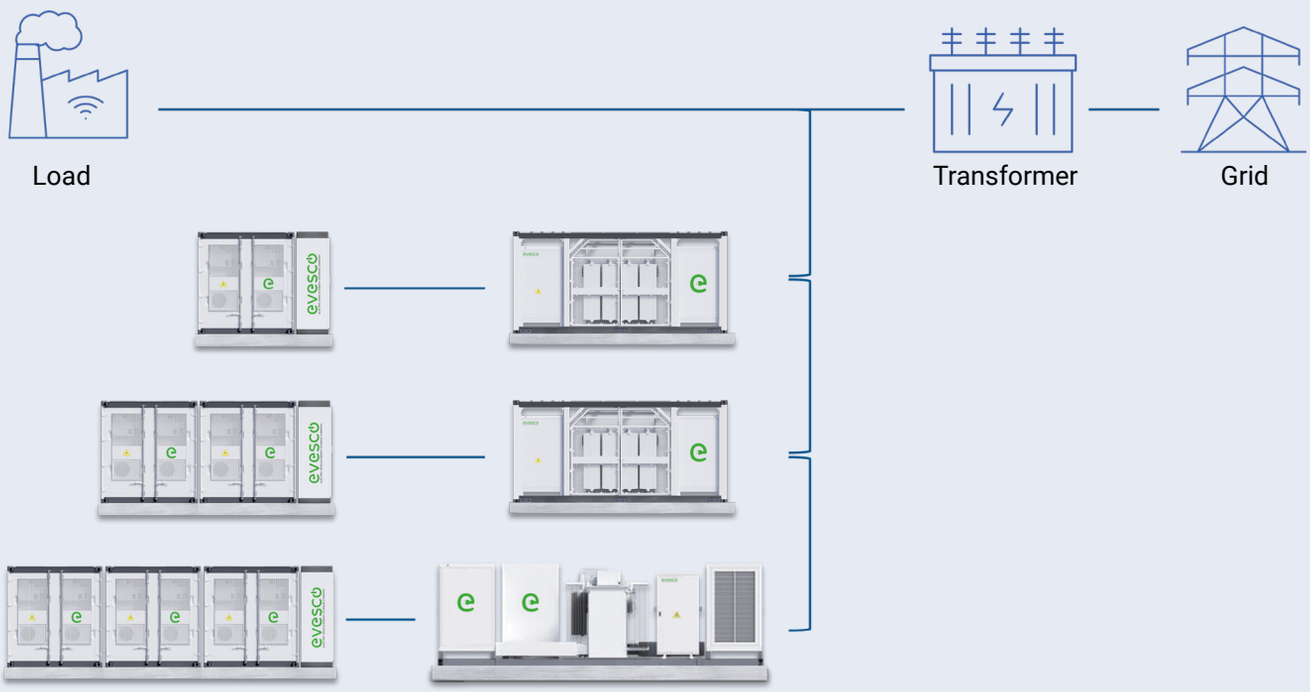
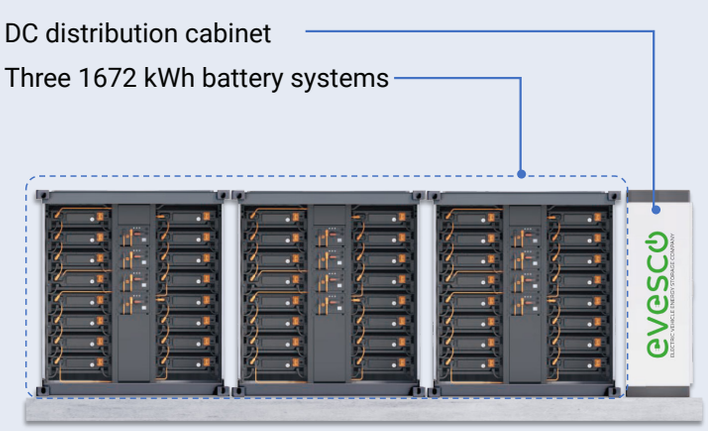
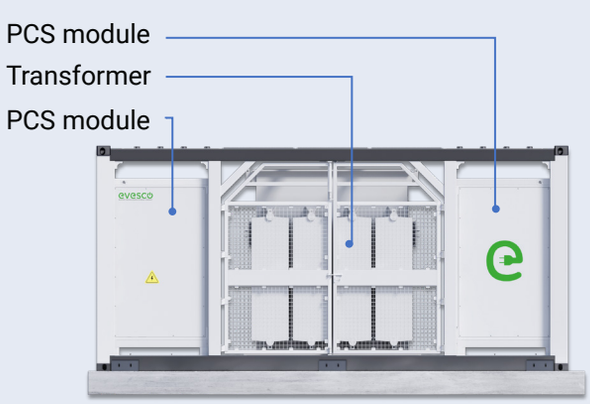
System Deployment Example



Battery System Layout



Converter System Layout



Built for the Demands of Real-World Applications

Whether enabling fast EV charging, stabilizing microgrids, supporting data centers, or optimizing energy use in commercial sites, EVESCO delivers smart, scalable storage wherever you need it.

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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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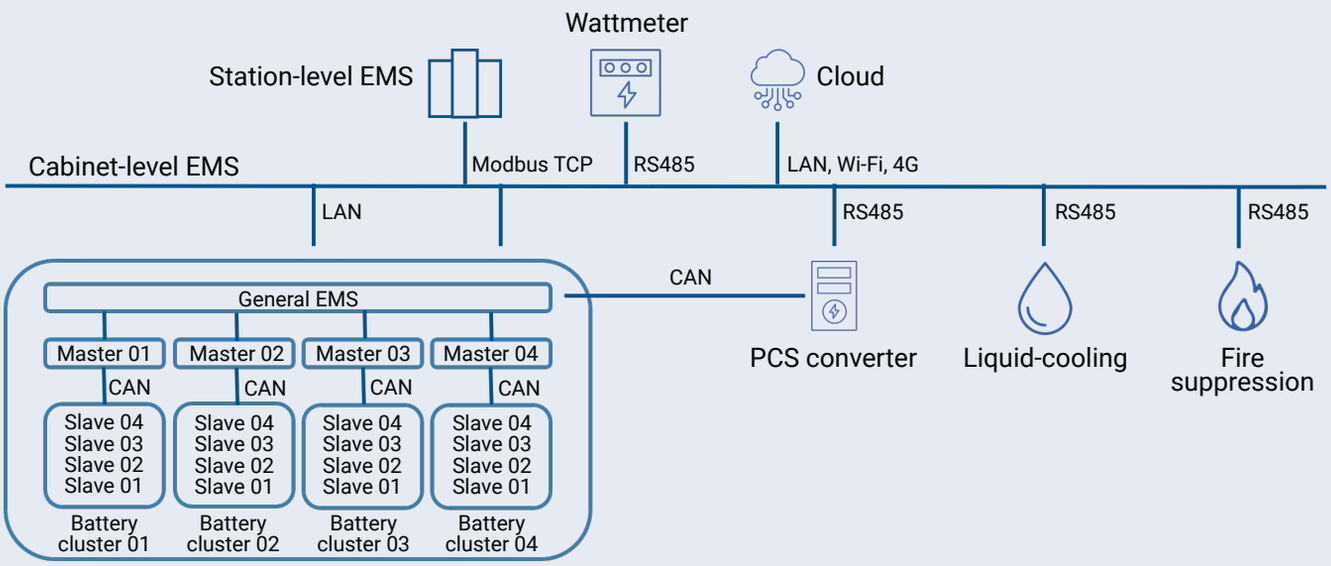
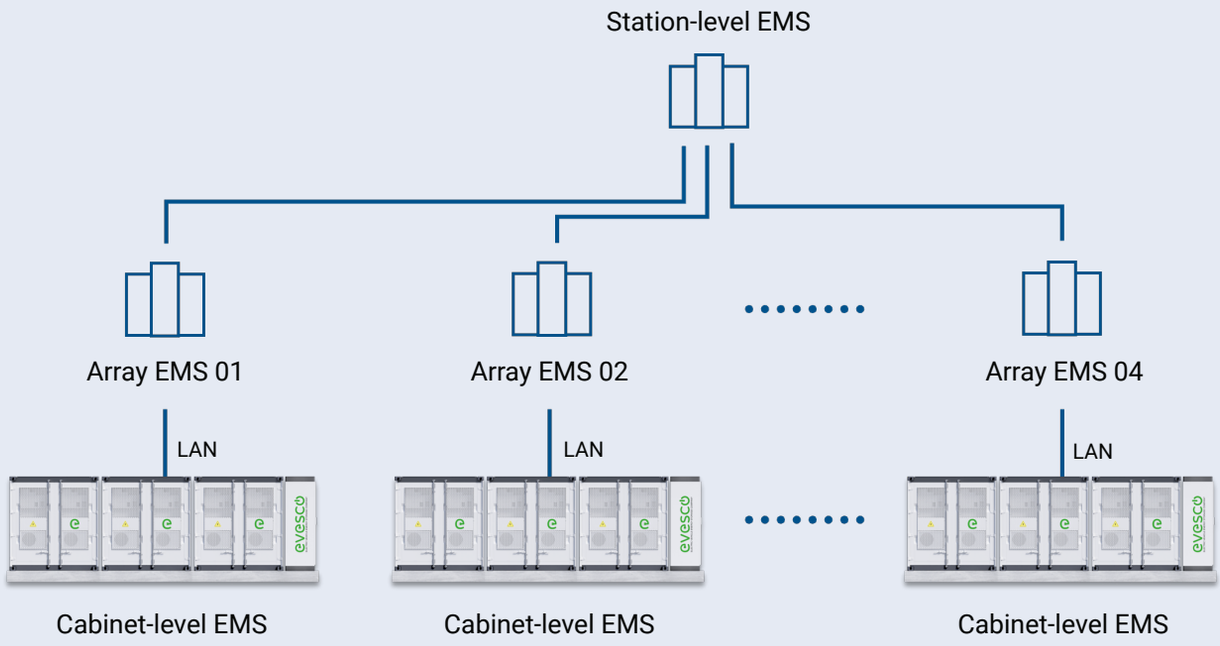
EMS Structure



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.