

DISTRIBUTED ENERGY STORAGE



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

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.

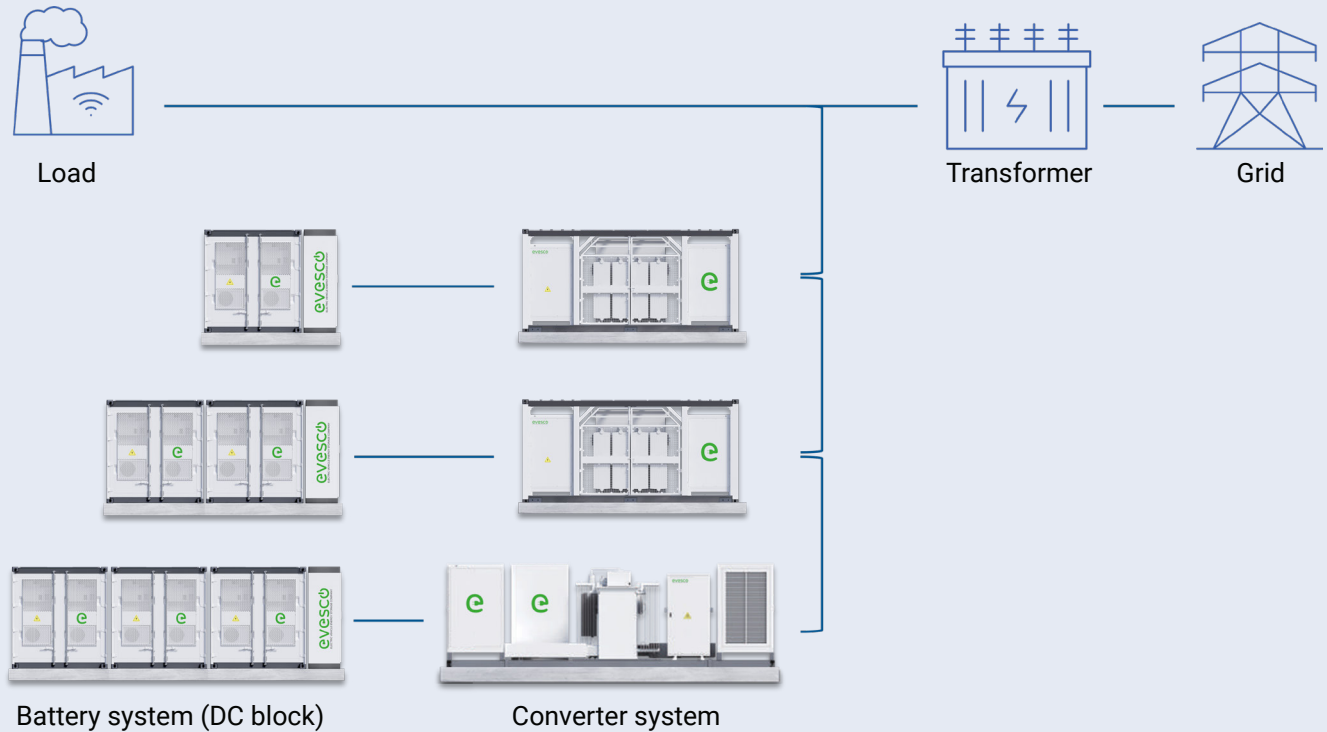


System Specifications

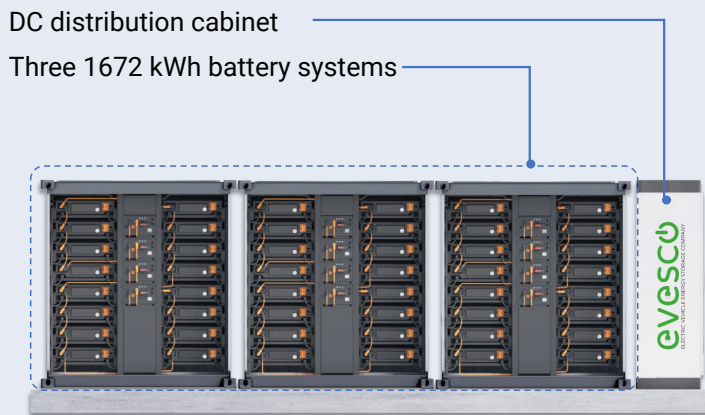


| SPECIFICATIONS | | | |
|--|--|--|--|
| | BATTERY SPECIFICATIONS (DC BLOCK) | | |
| MODEL NUMBER | ES-1672DC-EU | ES-3344DC-EU | ES-5016DC-EU |
| BATTERY CHEMISTRY | Lithium Iron Phosphate | | |
| CELL TYPE | 3.2 V / 314 Ah | | |
| MODULE CONFIGURATION | 1P104S | | |
| STRING CONFIGURATION | 1P416S | | |
| 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-EU | ESAC-1670-EU | ESAC-2600-EU |
| 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 | -4°F (-20°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 |

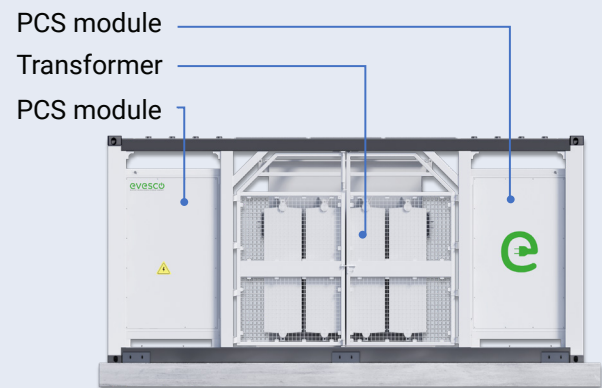
System Deployment Example



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.



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

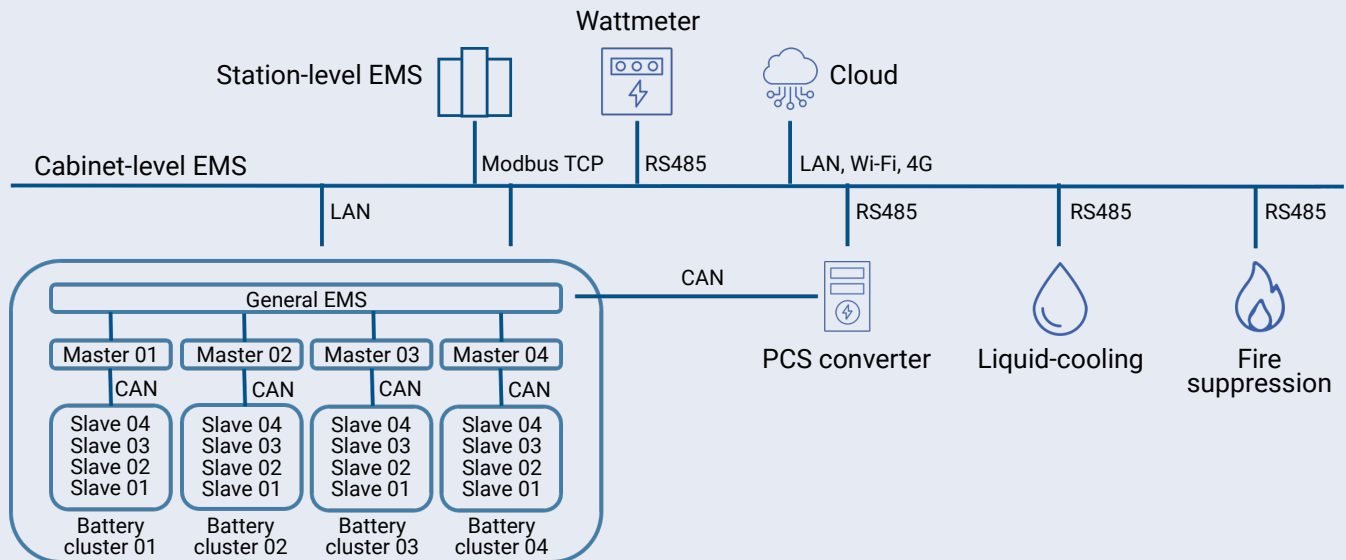
- Supports cabinet-level to station-level EMS deployment. Easily add new systems or expand capacity without reconfiguring your control strategy.

Proactive Maintenance & Diagnostics

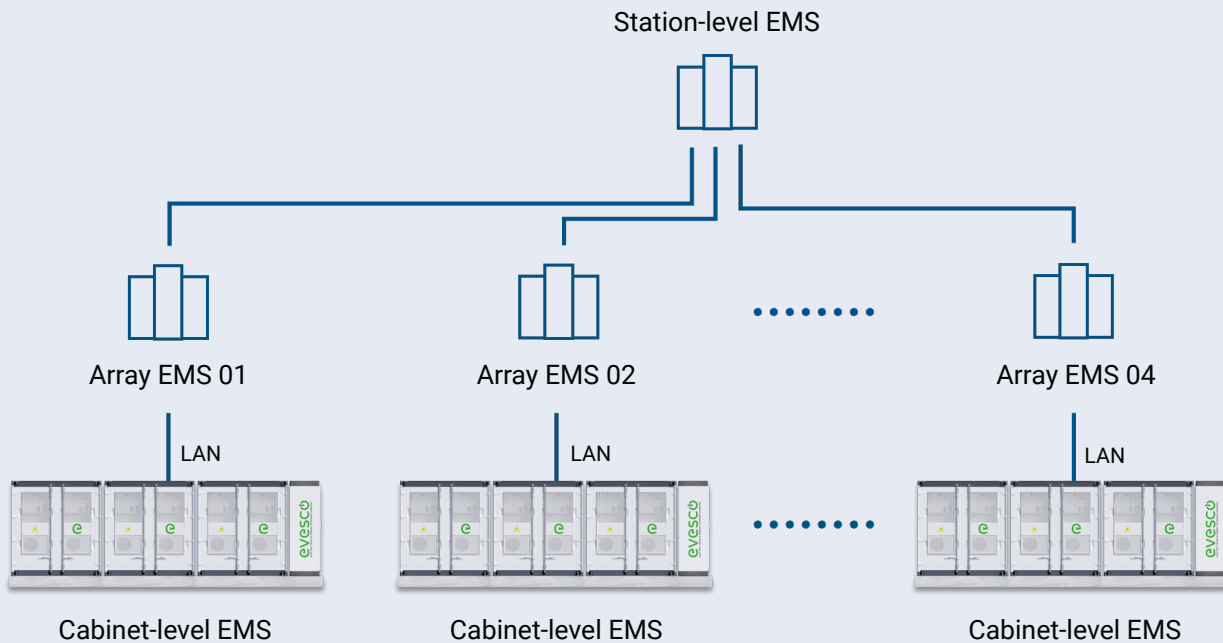
- Delivers predictive insights and fault detection to reduce downtime, streamline service cycles, and maximize asset life.

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

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.