



evesco
ELECTRIC VEHICLE ENERGY STORAGE COMPANY

ES-3061-NA 30 kW 61 kWh BESS



Smart, space-saving storage with seamless solar integration and scalable deployment.

System Features

Optimized for Solar Integration

- Built-in MPPT and high-efficiency inverter streamline solar connectivity, cutting energy costs while supporting sustainability goals and grid independence.

Compact Footprint, Powerful Delivery

- High-density storage and integrated design minimize space requirements, ideal for constrained sites, retrofits, or locations where every square foot matters.

Always-On Safety

- Advanced safety systems pair fire prevention, live diagnostics, and multi-level protection to ensure operational assurance.

Smart Energy Intelligence

- Integrated EMS enables real-time system oversight, remote control, and predictive diagnostics, empowering smarter, data-driven energy operations.

Adaptive Site Flexibility

- Works seamlessly in centralized or distributed configurations, with or without inverter integration, fitting diverse site layouts and technical requirements.

Modular Growth, Minimal Disruption

- Scale system capacity as your energy needs grow, without replacing core infrastructure or reworking electrical integration.

Buy America Compliant

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



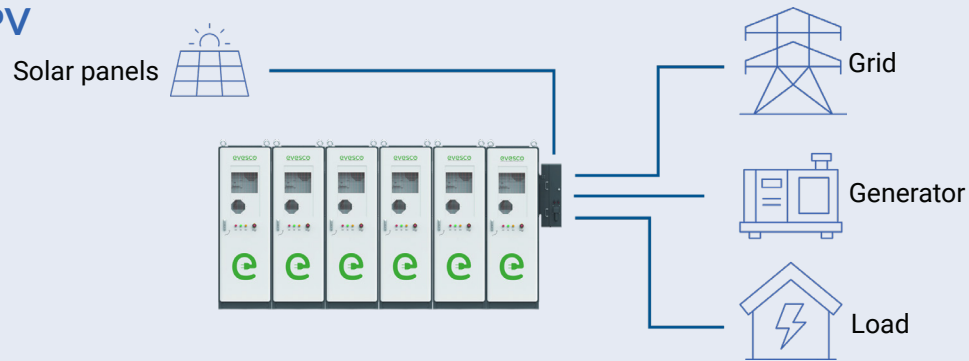
System Specifications



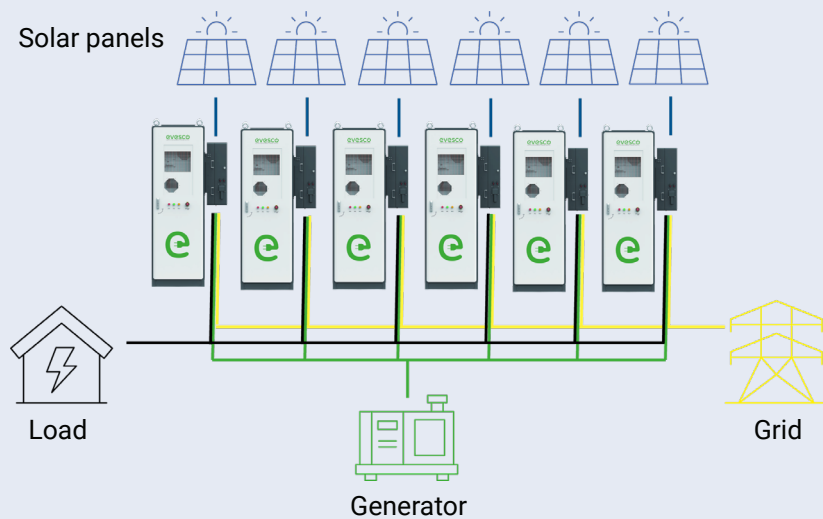
SPECIFICATIONS	
	BATTERY SPECIFICATIONS
MODEL NUMBER	ES-3061-NA (ES-61DC-NA for the battery without the inverter)
BATTERY CHEMISTRY	Lithium Iron Phosphate
MODULE ENERGY	5.12 kWh
MODULE NOMINAL VOLTAGE	51.2 V
MODULE CAPACITY	100 Ah
BATTERY MODULE CONFIGURATION	6S2P
SYSTEM NOMINAL VOLTAGE	307.2 V
SYSTEM VOLTAGE RANGE	281.25 - 340.8 Vdc
SYSTEM ENERGY	61.44 kWh
CHARGE CURRENT	95 A
DISCHARGE CURRENT	100 A
DISCHARGE DEPTH	90% DoD
CYCLE LIFE	>8000 Cycles
	PV INPUT SPECIFICATIONS
MAX PV POWER (STC)	39 kW
MPPT VOLTAGE RANGE	150 - 500 V
STARTUP VOLTAGE	180 V
MAX INPUT VOLTAGE	550 V
MAX OPERATING INPUT CURRENT PER MPPT	36 A
MAX SHORT CIRCUIT CURRENT PER MPPT	55 A
NUMBER OF MPPT TRACKERS	4
NUMBER OF PV STRINGS PER MPPT	2
MAX AC COUPLED INPUT	30

SPECIFICATIONS	
	AC OUTPUT SPECIFICATIONS
NOMINAL AC VOLTAGE	120/208 Vac (3Φ)
GRID FREQUENCY	50 / 60 Hz
REAL POWER, MAX CONTINUOUS	30 A
MAX OUTPUT CURRENT	83.4 A
PEAK APPARENT POWER (10S)	45 kVa
MAX GRID PASS-THROUGH CURRENT (10MIN)	200 A
CONTINUOUS GRID PASS-THROUGH CURRENT	180 A
POWER FACTOR OUTPUT RANGE	+/- 0.8 (settable)
BACKUP TRANSFER TIME	5 ms (settable)
CEC EFFICIENCY	96.5%
MAX EFFICIENCY	97.5%
DESIGN (DC TO AC)	Transformerless DC
STACKABLE	Up to 10 in parallel
	GENERAL SPECIFICATIONS
COMMUNICATION INTERFACE	CAN, RS485, Wi-Fi, LTE
CERTIFICATION (BATTERY)	UL1973U, L9540A UL 1741-2021 (incl UL1741SB) IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL1699B
CERTIFICATION (INVERTER)	UL 1741-2021 (UL1741SB) CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0) UL 1741 CRD-PCS, UL1699B, CEC, SGIP 4
IP RATING	IP55
OPERATING TEMPERATURE	-4°F (-20°C) to 131°F (55°C)
OPERATING HUMIDITY	5 - 85% RH
DIMENSIONS W x D x H	750 x 950 x 2280 mm 29.5 x 37.4 x 89.7 in
WEIGHT	~ 1050 kg ~ 2315 lb

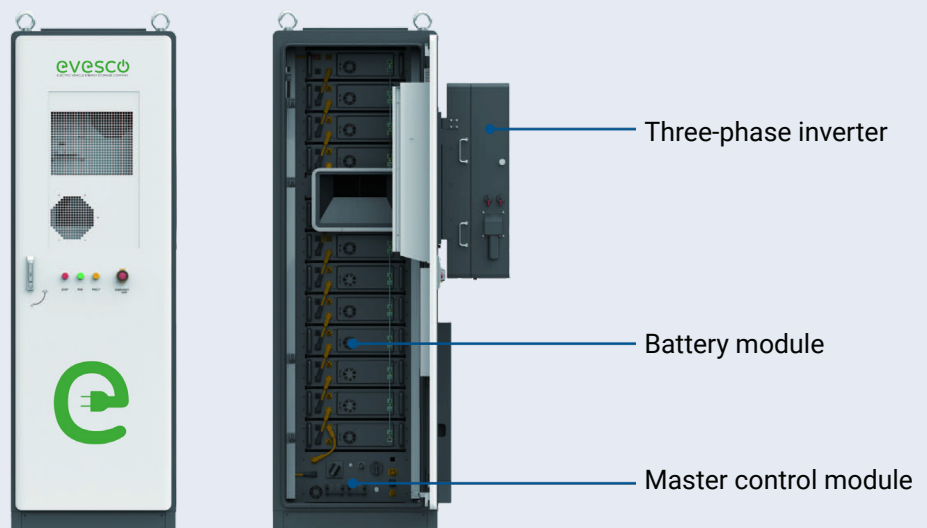
Centralized PV



Distributed PV



System Layout





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

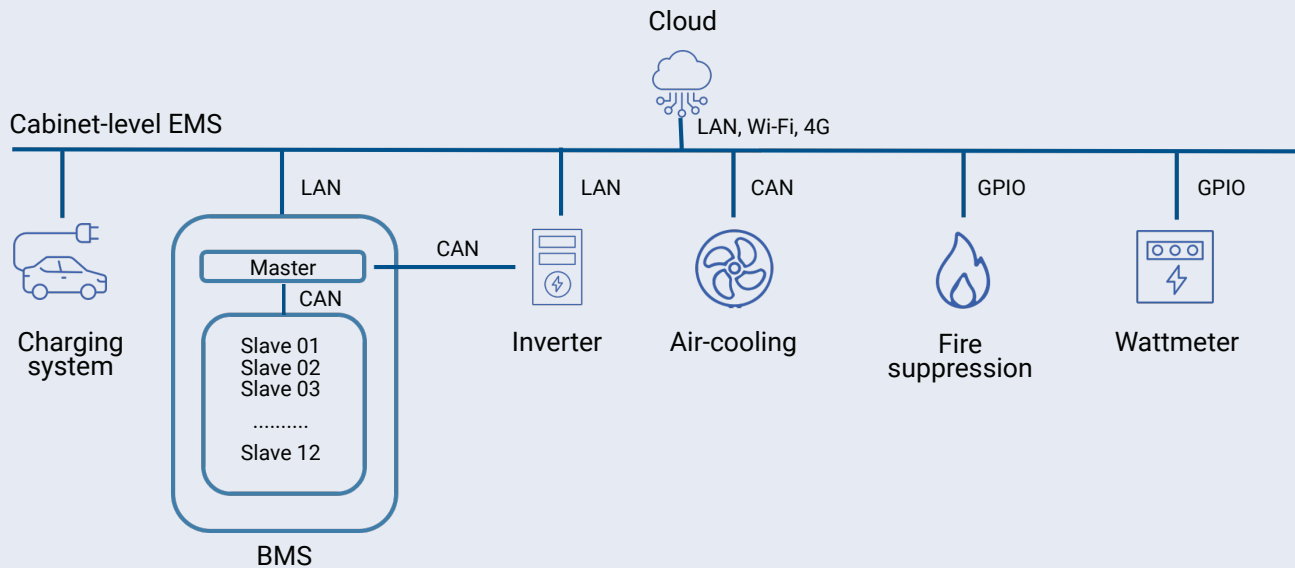
- Supports cabinet-level to station-level EMS deployment. Easily add new systems or expand capacity without reconfiguring your control strategy.

Proactive Maintenance & Diagnostics

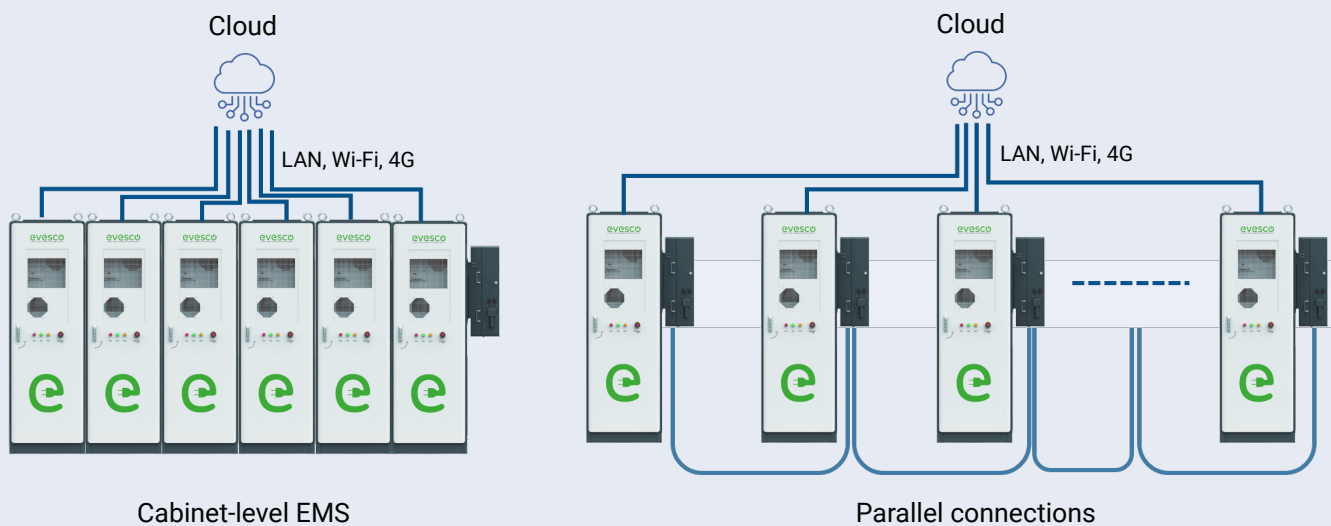
- Delivers predictive insights and fault detection to reduce downtime, streamline service cycles, and maximize asset life.

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.