

ESAI-60/96 - 60/192 (EU)

60 kW, 96 - 192 kWh All-in-One BESS



All-in-One Battery Energy Storage.
Fast Deployment. Proven Reliability.

System Features

All-in-One Design

- Integrates the PCS, batteries, and control systems into a single pre-assembled unit, reducing installation time, lowering costs, and simplifying on-site deployment.

Integrated EMS

- An integrated energy management system enables centralized monitoring, control, and optimization, simplifying operations while supporting predictive maintenance and system insights.

Flexible Applications

- Supports a wide range of operating modes and load profiles, enabling seamless deployment across grid-connected, off-grid, and hybrid energy storage applications.

Liquid Cooling

- Advanced liquid-cooled battery pack and cell-level temperature control improve system efficiency, enhance thermal stability, and extend battery life under demanding operating conditions.

Built-in Safety

- Multiple layers of DC protection and intelligent battery management enhance system safety, reduce operational risk, and support reliable long-term performance.

Long-Term Reliability

- Designed for continuous operation with durable components and intelligent system controls, ensuring consistent performance and reduced maintenance over the system lifespan.

Scalable System Architecture

- A modular architecture supports parallel system expansion, enabling capacity to scale efficiently as energy demands grow without replacing core infrastructure.





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System Specifications

Model numbers shown as X/Y indicate rated power (X) and energy capacity (Y).
e.g. 60/96 = 60 kW, 96 kWh.

Battery Specifications			
Model Number	ESAI-60/96 (EU)	ESAI-60/144 (EU)	ESAI-60/192 (EU)
Battery Chemistry	Lithium Iron Phosphate		
Capacity	96 kWh	144 kWh	192 kWh
Nominal Voltage	307.2 Vdc	460.8 Vdc	614.4 Vdc
Operating Voltage Range	240 - 350.4 Vdc	360 - 525.6 Vdc	480 - 700.8 Vdc
Cycle Life	> 8000 cycles		
PCS Specifications			
Rated AC Power	60 kW		
Max AC Power	72 kW (60s)		
Rated Output Voltage	400 Vac +/- 10%		
Rated Grid Frequency	50 / 60 Hz		
Rated Current	103 A		
Configuration	Standard: PCS, DCDC Optional: Internal MPPT, STS, ATS		
General Specifications			
Thermal Control Method	Liquid -cooling		
Fire Safety Configuration	Aerosol Extinguishing		
Communication	RS485/Ethernet, Modbus TCP/IP		
Standards/Certification	UN38.3, IEC 62619, IEC 61000, GB/T 36276, GB/T 34131, CE, EMC, IEC 61000, IEC 62477, EN50549, G99, VDE V 0126-1-1VDE-AR-N 4105, AS/NZS 4777.2:2020, NRS 097-2-1:2017, GB/T 34120, GB/T 34133		
IP Rating	IP54		
Operating Temperature	-22°F (-30°C) to 131°F (55°C)		
Operating Humidity	0 - 90%		
Dimensions	1600 x 1435 x 2200 mm		
L x W x H	63.0 x 56.5 x 86.6 in		
Weight	2000 kg 4409 lbs	2400 kg 5291 lbs	2700 kg 5952 lbs
Warranty	10 year battery performance 5 year parts		



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.



Ready to take control of your energy strategy?

Contact us at **evesco@power-sonic.com** to explore how EVESCO can accelerate your storage goals.

