

ESAI-1600/3008 (EU)

1.6 MW 3 MWh 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.

Advanced BMS

- Provides multi-layer protection and real-time active balancing to enhance safety, optimize performance, and ensure reliable long-term system operation.

Independent Battery Strings

- Allows each battery string to operate independently, simplifying maintenance, reducing system interaction, and improving overall operational efficiency.

Liquid Cooling

- Advanced liquid cooling technology enhances thermal stability, ensuring higher efficiency and extended battery life. This results in optimal system performance, increased energy output, and long-term reliability.

Bi-Directional PCS

- Supports efficient charging and discharging with multiple operating modes, enabling optimized energy flow, islanding detection, and reliable off-grid operation.

Scalable System Architecture

- Supports parallel system operation, enabling capacity expansion as energy needs grow without redesigning or replacing core system components.





ESAI-1500/3008 (EU)

1.5 MW 3 MWh All-in-One BESS

System Specifications

Model numbers shown as X/Y indicate rated power (X) and energy capacity (Y).
e.g. 1500/3008 = 1500 kW, 3008 kWh.

Battery Specifications	
Model Number	ESAI-1500/3008 (EU)
Battery Chemistry	Lithium Iron Phosphate
Cell Type	3.2 V / 314 Ah
Capacity	3008 kWh
Nominal Voltage	1228.8 Vdc
Operating Voltage Range	1075.2 - 1363.2 Vdc
DC Side Rated Current	8 x 162.7 A
Cycle Life	> 6,000 cycles
PCS Specifications	
Rated AC Power	1500 kW
Max AC Power	1760 kW
Rated Output Voltage	690 Vac
Output Voltage Range	586.5 - 759 Vac
Rated Grid Frequency	50 / 60 Hz
Rated Current	1338 A
AC Power Factor	0.1 ~ 1 leading and lagging (controllable)
Output THDI	≤1.5%
General Specifications	
Thermal Control Method	Liquid -cooling
Fire Safety Configuration	Aerosol Extinguishing, five-in-one detection, Perfluorohexanone
Gas Detection / Release	CO/H2 gas detection and release system
Communication	RS485/Ethernet, Modbus RTU/TCP
Standards/Certification	UL 9540A, IEC 62619, EN 50549-2, IEC 61000-28-4, IEC 62477, UL 1973, IEEE 1547, FCC, UN3536, NFPA 855, UN 38.3
IP Rating	IP54
Operating Temperature	-4°F (-20°C) to 104°F (40°C)
Operating Humidity	0 - 95%
Dimensions L x W x H	6058 x 2438 x 2896 mm 238.5 x 96 x 114 in
Weight	~ 28500 kg ~ 62832 lbs



Ready to take control of your energy strategy?

Contact us at
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to explore how EVESCO can accelerate your storage goals.

