

ESDB-1672 - 5016-BA (NA)

1672 - 5016 kWh DC BESS



BABA-Compliant DC Battery Energy Storage.
Flexible Deployment. Built to scale.

System Features

Flexible Electrical Integration

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

Modular and Scalable

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

Built-In EMS Intelligence

- Integrated EMS delivers local and remote system control, predictive maintenance, and real-time performance optimization.

Advanced BMS

- Equipped with multiple layers of protection and real-time balancing, the intelligent Battery Management System (BMS) enhances safety and optimizes efficiency.

Thermal Precision Cooling

- Advanced liquid cooling actively manages thermal conditions, ensuring consistent performance, safety, and longer battery life in any environment.

High-Density, Long-Life

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

BABA-Compliant

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





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System Specifications

Battery Specifications			
Model Number	ESDB-1672-BA (NA)	ESDB-3344-BA (NA)	ESDB-5016-BA (NA)
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 Battery Strings	4	8	12
Capacity	1672 kWh	3344 kWh	5016 kWh
Nominal Voltage	1331.2 Vdc		
Operating Voltage Range	1218.88 - 1476.8 Vdc		
Max. C-Rate	1C		
Cycle Life	8,000 cycles		
General Specifications			
Thermal Control Method	Liquid cooling		
Fire Safety Configuration	Aerosol Extinguishing		
Communication	RS485/Ethernet, CAN		
Standards/Certification	UL 9540, UL 9540A, IEC62619, IEC62477, EN61000-6-2/4, UN3536		
IP Rating	IP54		
Operatiing Temperature	-4°F (-20°C) to 131°F (55°C)		
Operating Humidity	0 - 95%		
Dimensions L x W x H	2991 x 2438 x 2591 mm 117.8 x 96.0 x 102.0 in	2991 x 4952 x 2591 mm 117.8 x 195.0 x 102.0 in	2991 x 7466 x 2591 mm 117.8 x 294.0 x 102.0 in
Weight	~ 15000 kg ~ 33069 lbs	~ 30000 kg ~ 66139 lbs	~ 45000 kg ~ 99208 lbs
Warranty	10 year battery performance		



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.

