

# ESDB-1672 - 5016 (NA)

## 1672 - 5016 kWh DC BESS



**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.

## 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.





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### System Specifications

Battery Specifications			
<b>Model Number</b>	ESDB-1672 (NA)	ESDB-3344 (NA)	ESDB-5016 (NA)
<b>Battery Chemistry</b>	Lithium Iron Phosphate		
<b>Cell Type</b>	3.2 V / 314 Ah		
<b>Module Configuration</b>	1P104S		
<b>String Configuration</b>	1P416S		
<b>Number of Battery Systems</b>	1	2	3
<b>Number of Battery Strings</b>	4	8	12
<b>Capacity</b>	1672 kWh	3344 kWh	5016 kWh
<b>Nominal Voltage</b>	1331.2 Vdc		
<b>Operating Voltage Range</b>	1218.88 - 1476.8 Vdc		
<b>Max. C-Rate</b>	1C		
<b>Cycle Life</b>	8,000 cycles		
General Specifications			
<b>Thermal Control Method</b>	Liquid cooling		
<b>Fire Safety Configuration</b>	Aerosol Extinguishing		
<b>Communication</b>	RS485/Ethernet, CAN		
<b>Standards/Certification</b>	UL 9540, UL 9540A, IEC62619, IEC62477, EN61000-6-2/4, UN3536		
<b>IP Rating</b>	IP54		
<b>Operating Temperature</b>	-4°F (-20°C) to 131°F (55°C)		
<b>Operating Humidity</b>	0 - 95%		
<b>Dimensions</b>	2991 x 2438 x 2591 mm	2991 x 4952 x 2591 mm	2991 x 7466 x 2591 mm
<b>L x W x H</b>	117.8 x 96.0 x 102.0 in	117.8 x 195.0 x 102.0 in	117.8 x 294.0 x 102.0 in
<b>Weight</b>	~ 15000 kg ~ 33069 lbs	~ 30000 kg ~ 66139 lbs	~ 45000 kg ~ 99208 lbs
<b>Warranty</b>	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](mailto:evesco@power-sonic.com)**  
to explore how EVESCO can accelerate your storage goals.

