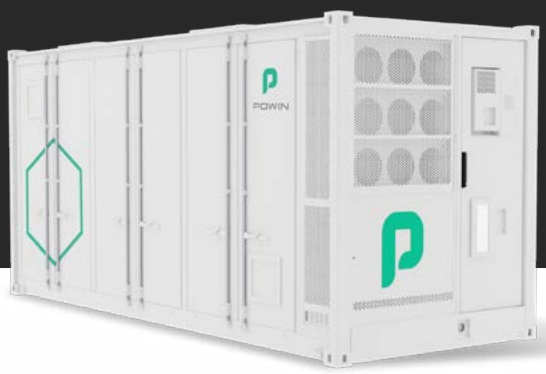
POWIN POD
THE NEXT EVOLUTION IN BESS TECHNOLOGY

Powin Pod is our newest, most powerful platform designed for utility-scale projects that are shaping the future of energy landscapes. The platform delivers advances where it matters; increased energy density, reduced installation times, and enhanced cost-efficiency. With unparalleled long-term system performance, safety, and availability, Powin Pod sets a new standard for energy storage solutions.



The Powin Pod platform offers benefits such as:

Higher Energy Density

With upgraded cell capacity, utilization of cell-to-pack technology, and optimized internal space, Powin Pod maximizes energy density, resulting in significant land savings for your projects.

Top-Tier Safety & Reliability

Liquid cooling provides more stable internal battery system temperatures, ensuring enhanced system safety and longevity. Powin complies with the latest and most stringent fire prevention standards such as UL9540A, NFPA 68 and NFPA 69, while having optional class-leading fire suppression at the module and container level.

Enhanced Cost Savings

Experience lower CAPEX through reduced land costs, faster and lower cost shipping, and simplified installation and commissioning processes. Enjoy minimized upfront costs and maximized financial returns over the project's lifetime.

Optimized Supply Chain

Powin Pod includes a U.S.-sourced option, compliant with IRA domestic content standards for enhanced tax benefits, and an internationally manufactured option designed to comply with Section 301 tariff regulations for optimized cost savings.[1]

1. Expected delivery mid-2026

Powin Pod seamlessly integrates with StackOS Software, boosting BESS performance and fortifying cybersecurity

- Cutting-edge Powin firmware and software designed, written, and tested in the US
- Powin-tested battery cells backed by independent evaluation in the Powin Battery Lab in Tualatin, Oregon
- Seamless integration of Powin's US-made StackOS Control System (Battery, Energy, and Thermal Management Systems) with the hardware platform
- Intelligent SOC and SOH estimation, balancing and battery operations enabled by cell-level visibility and cloud analytics
- Our proprietary BMS and controls highlight our commitment to complying with robust cybersecurity standards and regulations, ensuring superior protection for data privacy, intellectual property, and overall security
- Remote diagnosis and rapid response through Powin's Command Center interface and 24/7 Remote Operations Center purpose-built for storage
- Safety, availability, insight and flexibility leading to lower risk, enhanced performance and revenue generation

Unlock Tangible Benefits with Powin DNA

Experience end-to-end solutions with Powin, from system design to long-term service. With a proven track record of over 17 GWh deployed and under construction worldwide and over 6 million battery cells monitored, Powin is a trusted and established US-based integrator. We provide world-class logistics for on-time delivery and rely on our 24/7 Remote Operations Center, over 500 field service technicians and Authorized Service Providers to ensure optimal system performance.

Why Choose Powin?

- Maximized long-term BESS efficiency and performance
- Industry-leading DC availability
- 20-year performance guarantee and long-term service structures
- Top-tier system quality, reliability, and safety
- Enhanced cybersecurity measures for peace of mind
- Seamless integration providing unmatched control, and coordination for your energy projects

POWIN POD TECHNICAL SPECIFICATIONS

Battery Cell	**Cell Type**	314 Ah
	Cell Chemistry	LFP
	Cycle Life [1,2,4]	2-hour: 7,300 cycles / 60% SOH at EOL 4-hour: 7,300 cycles / 60% SOH at EOL
	Calendar Life [2]	20 years
	Depth of Discharge	100%
	Operating Voltage	1138-1492 V
Performance	**Maximum Energy Capacity** [3]	5.015 MWh
	DC Power @ Rated Duration[4]	2 hours at 2.5 MW 4 hours at 1.25 MW 8 hours at 0.625 MW
General	**Dimensions**	19'10'' L x 8' W x 9'6'' H (6.05m x 2.4m x 2.8m)
	Weight[4]	97,003lbs (44,000kg)
	IP Rating	Container Level - IP55 / Module Level - IP67
	Ambient Operating Temperature Range	-30°C to 50°C
	Auxiliary Power Input	3P5W, 480VAC 60Hz or 3P3W, 400VAC, 50Hz
	Heating and Cooling	• Module: High-efficiency liquid-cooled thermal management system • Control Cabinet: Forced air HVACs
	DC Efficiency[4]	≥93.8%@0.5P; ≥95.2%@0.25P
Safety	**Explosion Prevention and Mitigation**	Gas detection with dedicated emergency safety systems including container and module ventilation and container deflagration
	Fire Detection	Smoke, heat, and hydrogen detectors
	Fire Suppression (optional)	Module level & container level aerosol
	Codes and Compliance	UL 9540A, UL 9540, UL 1973, IEC 62619, IEC 63056, IEC 62477, UN 38.3, NFPA 68, NFPA 69
Software	**BMS + EMS + Environmental Controls**	Stack OS™
	Communications Interface	Modbus TCP & REST API

Note: Specifications in the above table are design estimates only and are not guaranteed. Contact Powin for a project-specific estimate as final values depend on system design, location, and use case.

1 Includes Stack and Container level Thermal Management and controls
2 End of life depends both on BESS age and usage
3 Assumes 1 full cycle per day and includes calendar aging
4 Data considered premilinary for fully US-sourced option

Embrace the future of energy storage with Powin Pod and take your utility-scale projects to new heights of success. Contact us today to learn more: **contact@powin.com** | **www.powin.com**