

E2000 Series

Large Scale Industrial and Utility BESS



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Product Description

Housed in 40FT ISO containers, the EPC Energy line of large C&I and utility battery energy storage systems presents a comprehensive, integrated solution for energy storage needs. Our cutting-edge solution is powered by lithium iron phosphate (LFP) battery technology, which has already been successfully utilized in hundreds of thousands of electric vehicles. With a steadfast focus on performance, safety, and reliability, our energy storage solution provides unparalleled value to our customers. The integrated BESS, with its plug-and-play design, ensures seamless implementation, minimizing installation costs.

At EPC Energy, we are committed to delivering top-notch customer experience. All our systems come equipped with web-based control and monitoring interface for enhanced accessibility and versatile management. Our vision is to reshape the energy industry and empower customers to reach their energy aspirations efficiently and sustainably.



Technical Features

01 All-in-One Design

Integrated, pre-configured system reduces on-site installation time. Contains inverter, software, housing and fire suppression

02 Multi-tier Protection & Safety

Comprehensive, multi-tier Battery Management System (BMS) that monitors, fine-tunes, and balances system. Superior safety, thermal stability, and dependability

03 Integrated Energy Management System

EMS modes: TOU, demand management, arbitrage, resiliency, microgrid & self-consumption

04 String-Inverter Architecture

Built-in resilience and redundancy. Modular, scalable design with multiple power and energy settings

Service Highlights

01 Quality and Warranty

Powerful warranty. 3 years standard, 10 or 20 year extended warranty

02 Expertise for Customization

Maximize your project ROI with customizable configurations specified to your project.

03 Turnkey Services

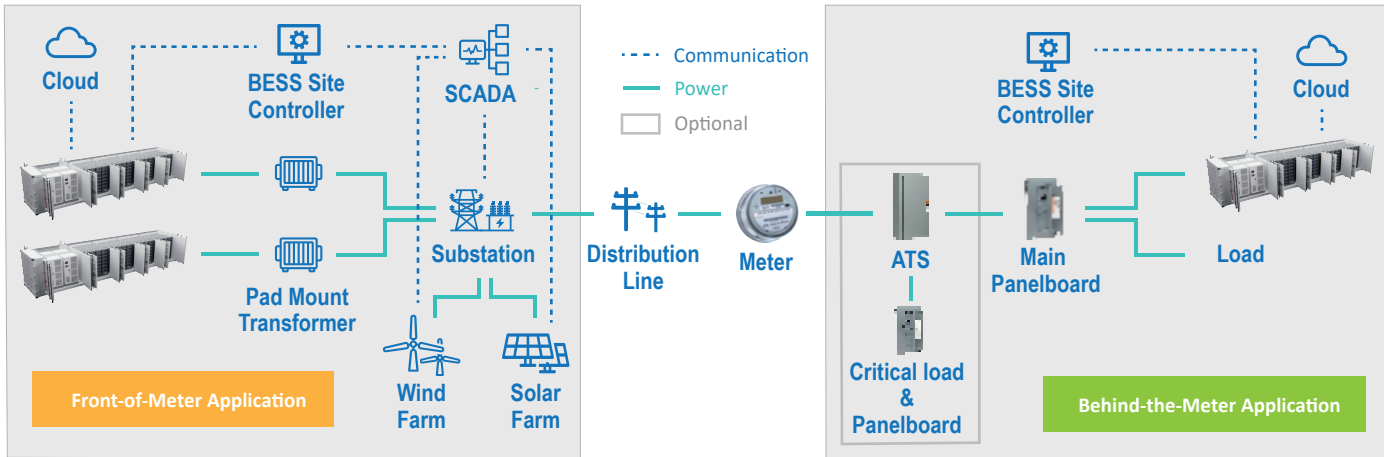
From concept to commissioning, our team of experts will walk you through every step of the process.

04 Certification

UN38.3, UL9540A, UL 1973, UL 1741-SB, UL 9540

Utility Chart

System includes: Batteries and BMS, racks, PCS, isolation transformer, fire suppression system, EMS software, Site Controller, enclosure



Specification

The BESS specifications are shown as below.

No.	Item	Specification	
1	Nominal Energy	4.3MWh	
2	Nominal DC Voltage	768VDC	
3	Operating DC Voltage Range	672VDC - 864VDC	
4	SOC Operating Range	5%-100%	Recommended
5	Max Continuous Charging Power	2000kW	
6	Max Continuous Discharging Power	2000kW	
7	System Round Trip Efficiency	90%@0.5C	Auxiliary load 10kW
8	Operating Temperature	-20°C-55°C	
9	Storage Temperature Range	-30°C-55°C	Recommended 25°C
10	Thermal Management	Automatic air cooling	
11	Altitude	≤3000m	>3000m, need to derate
12	SOC Accuracy Error	<8%	
13	Service Life	≥8000 Cycles	@25°C, 0.5C/0.5C, 100%DOD, 70%EOL
14	Config	Cell	3.2VDC/280Ah
		Module	32VDC/280Ah
		Tray	64VDC/280Ah
		String	768VDC/280Ah
		System	768VDC/5600Ah
15	Communication	LAN, RS485	
16	Certification	UL9540, UL9540A	UN38.3, UL1973, UL1741-SB
17	Rated AC Output Power	2000kW	
18	PCS	Rated AC Voltage	380V three phase
		Rated Frequency	60Hz
		AC Max Current	3000A
		PCS Efficiency	98.2%
19	Size	40FT HC	High Cube
20	Weight	52 tons	