

AES CABINET ENERGY STORAGE SOLUTION

Energy Storage for Community, Commercial and Industrial Applications

This cabinet-based BESS delivers robust performance in a smaller footprint, ideal for commercial, industrial, and distributed energy projects—providing the versatility needed for industrial self-consumption, grid stabilization, microgrid/off-grid support, and EV charging infrastructure. A compact, modular cabinet solution engineered for 1500 VDC or lower applications. Designed for seamless integration with a wide range of advanced Power Conversion Systems (PCS), it offers a flexible, scalable approach to energy storage.



Battery Configuration	208S1P (4 packs @ 52S1P)	260S1P (5 packs @ 52S1P)	312S1P (6 packs @ 52S1P)	364S1P (7 packs @ 52S1P)	416S1P (8 packs @ 52S1P)
Battery Chemistry	Lithium Iron Phosphate				
Nominal Energy Capacity	213kWh	266kWh	319kWh	373kWh	426kWh
Usable Energy Capacity	209kWh	261kWh	313kWh	366kWh	418kWh
Battery Max. Continuous Power	104kW	131kW	157kW	183kW	209kW
Roundtrip Efficiency	94% (25°C, 0.5C)				
System Nominal Voltage	665.6V	832.0V	998.4V	1164.8V	1331.2V
System Operating Voltage	603.2V - 738.4V	728V - 923V	873.6V - 1,107.6V	1,019.2V - 1,292.2V	1,164.8V - 1,476.8V
Nominal Cell Capacity	320 Ah				
Usable Cell Capacity	314 Ah				
Continuous Current	157A (C/2)				
Internal Fuse Rating	315A				

MECHANICAL SPECIFICATIONS

Product Dimensions (WxDxH)	1,300 x 1,300 x 2,374 mm (51 x 51 x 93 in)				
Net Weight	2,490kg (5,490lb)	2,850kg (6,285lb)	3,190kg (7,050lb)	3,570kg (7875 lb)	3,930kg (8675lb)
Material and Finish	Steel - Corrosion Resistant Powder Coat				
Thermal Management System	Integrated Liquid Chiller/PTC System				
Max TMS Power Input	4.5 kW (Cooling) 3.5 kW (Heating)				
Coolant Type	50% Water / 50% Ethylene Glycol				
Chiller Refrigerant	R-513A				
Operating Temperature	-30°C to 55°C (-22°F to 131°F)				
Storage Temperature	-20°C to 45°C (0°F to 110°F)				
Relative Operating Humidity	0-95% (non-condensing)				
Ingress Rating	Outdoor IP55 (NEMA 3R)				
Noise Level @ 1m	≤ 75 dB				
Auxiliary AC Input	240VAC (±15%) 30A (480/240VAC 5KVA Outdoor Transformer Included)				

APPLICATIONS

Industrial Self-Consumption (Arbitrage). Store energy while demand is low or when renewable output is high and discharge it during peak demand.

Grid Stabilization. Integrate renewables by delivering energy rapidly to balance supply and demand and stabilize frequency.

Microgrid & Off-Grid Support: Enable microgrids and remote off-grid systems with reliable energy storage.

EV Charging Support: Expand EV charging infrastructure by storing energy on-site without upgrading the utility service connection.

FEATURES

Space-Efficient. High energy density cabinet with optimized thermal management.

Scalability. Configurable to meet power and capacity requirements, simple to expand.

High Efficiency. Up to 94% round-trip efficiency (RTE) for DC charge and discharge.

Enhanced Safety. Audible and visual alarms with E-stop, heat and smoke detection, aerosol fire suppression and passive deflagration vent.

Flexible Integration: Compatible with third-party PCS, SCADA, and EMS systems.

Durable and Long-Lasting: Engineered for a 20-year service life, designed for easy maintenance and serviceability.