

EPES5000

5MWh Liquid Cooled Energy Storage Container
For Large-Scale Sustainable Energy Infrastructure



High Energy Density

- 5MWh in a 20HQ container
- Up to 340kWh/m² AED
- Maximized space utilization



Robust Performance

- Stabilizes the grid and prevent outages
- Supports volatile and extreme power demands
- Intelligent TMS ensuring long cycle life



Safe Design

- High quality LFP cells
- NFPA 68&69 compliance FFS
- Highly integrated Fire Suppression System



Easy & Efficient

- Unit ships, Ready to operate
- Pre-assembled for easy onsite installation
- Minimal maintenance required

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Battery Parameters

Cell Type	LFP
Nominal Voltage	1,331.2 Vdc
Operating Voltage Range	1,040 – 1,500 Vdc
Nominal Capacity	314 Ah
Nominal Energy	5,015 kWh
Charge/Discharge Rate	0.5C
System Configuration	416S12P
Module Nominal Energy/Configuration	104.5 kWh/1P104S

System Parameters

Maximum System Efficiency	≥93.8%@0.5P, ≥95.2%@0.25P
Charge/Discharge Rate	0.5P
Continuous Charging/Discharging Current	1,884 A
Short Circuit Current	98kA@ Single Rack
Insulation Standard	≥1,000 Ω/V
Withstand Voltage	4,500Vdc. Leakage Current ≤5mA. No Breakdown or Flashover
Depth of Discharge	0 – 97%
SOE Accuracy	<3%
Operating Altitude	<3,000 m, Derating Above 3,000 m
Operating Relative Humidity	5 ~ 95%RH, No Condensation
Operating Temperature Range	-20 °C – 55 °C
Thermal Management Mode	Liquid Cooling & Heating
Rated Auxiliary Power Supply Power	27 kW @ Ambient 35°C, 33.5 kW @ Ambient 45°C
Rated Cooling Capacity	60 kW @ Ambient 35°C, 55 kW @ Ambient 45°C
Rated Heating Power	27 kW
Fire Protection System	Active Warning + Container Aerosol + PACK Level Immersion + Water Spray
Ingress Protection	Battery Room IP55 / Electric Room IP54
Corrosion Protection Class	C4
Dimensions (W × D × H)	2,438 × 6,058 × 2,896 mm
Weight	~44,000 kg
Cell Certifications	UN38.3, UL1973, IEC62619, UL9540A, GB/T 36276
System Certifications	IEC62477, IEC62619, IEC 62933, IEC63056, IEC60730 UL1973, UL9540A, UL9540, NFPA855, NFPA68, NFPA69