

All-in-one Liquid-cooled Energy Storage Cabinet

ECO-E233LS

Product Introduction

The liquid-cooled cabinet includes state-of-the-art cabinet-level liquid cooling and temperature balancing techniques. With a cell temperature variance of less than 3°C, it enhances the uniformity of cell temperature and prolongs battery lifespan. As a result of the cooling techniques, the ESS is able to benefit from greater energy density. This enhances the economic viability. The cabinet integrates long-life Lithium Ferrous Phosphate battery chemistry, efficient bidirectional-balancing Battery Management System (BMS), high-performance Power Conversion System (PCS), active safety system, smart distribution into one cabinet.



Product Features



Compact

1.4m² footprint only, save 35% space compared with air-cooled.



High Integration

Liquid colling delivers higher power density and long term stability.



Efficient

Optimal in-PACK duct design, achieve high-efficient cooling and low energy consumption.

Long Cycle Life

Over 8,000 times cycle life.



Flexible Expansion

Modular design, simplified parallel expansion.



Ultimate Safety

In-PACK and triple-level fire safety.

Specifications

DC Battery Parameters

Cell Type	LFP 3.2V/280Ah
PACK	46.6kWh/1P52S
Battery System	233kWh/1P260S
Voltage Range	728~936Vdc
PACK Ingress Rating	IP65

AC Parameters

Rated Power	100kW
Max. Power	110kW
THDi	< 3%
DC Ratio	< 0.5%lpn
Nominal Voltage	400Vac
Power Factor	-1 lagging~1 leading
Nominal Frequency	50/60 Hz

System Parameters

System Efficiency	≥91%
Charge/Discharge Rate	≤0.5P
DoD	95%
SOC Accuracy	< 3%
Cycle Life	≥8,000 times
Switching Time	<100ms
Connectivity	Ethernet /RS485
Ingress Rating	IP55
Cooling	Liquid Cooling
Operating Temperature	-25°C~55°C
Humidity	5-95%RH, non-condensing
Noise	≤75dB
Altitude	≤2,000m (derating above 2,000m)
Fire Safety	Combustible gas detection/smoke detection/temperature detection + active warning + module-level fire suppression (Perfluoro)
Dimensions (W*D*H)	1,050*1,350*2,400 (mm)
Weight	2800kg
Compliance	UN38.3, IEC61619, UL1973, UL9540 and CE-EMC

