

All-in-one Liquid-cooled ESS Cabinet

ECO-E233LS

The all-in-one liquid-cooled ESS cabinet adopts advanced cabinet-level liquid cooling and temperature balancing strategy. The cell temperature difference is less than 3°C, which further improves the consistency of cell temperature and extends the battery life. The modular design makes the parallel solution more flexible and has higher energy density, which significantly improves the economy, safety and construction convenience of ESS projects.



Compact

1.4m² footprint only, easy transportation & fast installation.



High Integration

233kWh energy in one cabinet with remarkable endurance.



Efficient Cooling

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



Long Cycle Life

Over 8,000 times cycle life, excellent performance of battery system.



Flexible Expansion

Modular design, simplified parallel expansion.



Ultimate Safety

In-PACK fire warning and protection with NOVEC1230/aerosol, prevent heat diffusion and runaway.

Specifications

DC Side

Cell Type	LFP280Ah
PACK	46.592kWh/1P52S
Battery System	232.96kWh/1P260S
Voltage Range	728~936Vdc
PACK Ingress Rating	IP65

AC Side

Rated Power	50kW/100kW
Max. Power	55kW/110kW
THDi	≤3%
DC Ratio	<0.5%I _{pn}
Nominal Voltage	400Vac/3P+N+PE
Power Factor	-1 lagging~1 leading
Nominal Frequency	50Hz/60Hz

General

Efficiency	≥90%
Charge/Discharge Rate	≤0.25P/0.5P
DoD	95% (25±2°C)
SOC Accuracy	<3%
Cycle Life	≥8,000 cycles
Switching Time	<100ms
Connectivity	Ethernet /RS485
Ingress Rating	IP55
Cooling	Active 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	NOVEC1230/aerosol
Dimensions (W*D*H)	1,050*1,350*2,400 (mm)
Weight	2,570kg
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549

