All-in-one Liquid-cooled ESS Cabinet

ECO-E261LP-2A



Brief

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.

Features

Compact
1.4m² footprint only, easy transportation & fast installation.

High Integration
261kWh 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 aerosol, prevent heat diffusion and runaway.

Specifications

DC Side	
Cell Type	LFP314Ah
PACK	52.248kWh/1P52S
Battery System	261.24kWh/1P260S
Voltage Range	728~936Vdc
PACK Ingress Rating	IP65
AC Side	
Rated Power	125kW
Max. Power	137kW
THDi	≤3%
DC Ratio	＜0.5%Ipn
Nominal Voltage	400Vac/3P+N+PE
Power Factor	0.98 lagging~0.98 leading
Nominal Frequency	50Hz/60Hz
General	
Efficiency	≥90%
Charge/Discharge Rate	0.5P
DoD	95%（25±2°C）
SOC Accuracy	＜3%
Cycle Life	≥8,000 cycles
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	Aerosol
Dimensions (W*D*H)	1,050*1,350*2,400 (mm)
Weight	2,600kg
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549