All-in-one
Liquid-cooled ESS Cabinet

Model: FRLA1-125-261K
261.24kWh



- 1.4m² footprint only, easy transportation & fast installation.
- 261kWh energy in one cabinet with remarkable endurance.
- Optimal in-PACK duct design, achieve high-efficient cooling and low energy consumption.
- Over 8,000 times cycle life, excellent performance of battery system，Modular design,simplified parallel expansion.

Green energy, better life.

DC Side	
Cell Type	LFP314Ah
PACK	52.2kWh/1P52S
Battery System	261kWh/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/3W+N+PE
Power Factor	0.98 lagging~0.98 leading
Nominal Frequency	50Hz/60Hz
AC Side	
Efficiency	89%
Charge/Discharge Rate	0.5P
DoD	100%（25±2°C）
SOC Accuracy	＜ 3%
Cycle Life	⩾ 8,000 cycles
Communication	Modbus TOP/IP
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25°C ~55°C (Derating after 45°C)
Anticorrosion Rating	C4(C5 optional)
Humidity	0~95%RH, non-condensing
Noise	⩽ 75dB
Altitude	3,000m (derating above 2,000m)
Fire Safety	Aerosol
Dimensions (W*D*H)	1,050*1,350*2,400 (mm)
Weight	2,600kg
Compliance	UN38.3,IEC62619,IEC63056,IEC62477-1,IEC61000-6-2/4 ,UL9540A

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.