

All-in-one Liquid-cooled ESS Cabinet

Model:ECO-E418LP
418kWh



- 2 m² footprint only, easy transportation & fast installation.
- 418kWh 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	ECO-E418LP-4A400	ECO-E418LP-3A480	ECO-E418LP-2A690	ECO-E418LP-2A800
Cell Type	LFP / 314 Ah			
Pack Configuration	52.248 kWh / 1P52S			
System Configuration	418 kWh / 1P416S			
Rated DC Voltage	1331.2 V			
DC Voltage Range	1164.8 ~ 1497.6 V			
Max. Charge/Discharge Rate	0.25~0.5 P			
Max. Depth of Discharge	100% (25 ± 2 °C)			
AC Side				
Rated Output Power	125kW*	150kW	215kW	215kW
Max. Apparent Power	137.5kW*	165kW	237kW	237kW
Rated AC Voltage	400V	480V	690V	800V
AC Voltage Range	-15%~+10%			
Grid Type	3P3W			
Rated Frequency	50 Hz / 60 Hz			
Power Factor	0.99/ -1 ~ +1			
THDi	≤ 3%			
DC Ratio	< 0.5% I _{pn}			
General				
Max. Efficiency	≥ 90%			
Cycle Life	≥ 8,000 cycles			
Communication	Modbus TCP/RTU			
Fire Suppression System	Aerosol			
Ingress Rating	IP55			
Cooling	Liquid cooling + Air cooling			
Operating Temperature	-25°C ~55°C (Derating after 45°C)			
Anticorrosion Rating	C4 (C5 optional)			
Humidity	5~95% RH (non-condensing)			
Noise	≤ 80 dB			
Altitude	4000m (Derating above 2000m)			
Dimensions (W*D*H)	1,500*1,350*2,400 mm			
Weight	3,800 kg			
Compliance	UN38.3, IEC62477-1, IEC61000, IEC62619, IEC63056, UL9540A, EN50549			

The ECO -E418LP features advanced pack - level liquid cooling and temperature balancing , maintaining cell temperature difference within 3°C . This enhances cell temperature consistency and extends battery life . Its modular design enables flexible parallel configurations and higher energy density , significantly improving the cost - effectiveness , safety , and installation convenience of ESS projects .