

PowerStack Liquid Cooling Commercial Energy Storage System



LOW COSTS

- Highly integrated ESS for easy transportation and O&M
- All pre-assembled, no battery module handling on site
- 8 hour installation to commission



SAFE AND RELIABLE

- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi level battery protection layers formed by discreet standalone systems offer impeccable safety
- Intelligent leakage protection and liquid refilling system



EFFICIENT AND FLEXIBLE

- Intelligent liquid cooling ensures higher efficiency and longer battery cycle life
- Modular design supports parallel connection and easy system expansion
- Front Cable Entry, save cable tray



SMART AND ROBUST

- Fast state monitoring and faults record enables pre-alarm and faults location
- Integrated battery performance monitoring and logging

Product Name	ST570kWh-250kW-2h	ST1145kWh-250kW-4h
Battery cabinet data		
Cell type	LFP	
System battery configuration	320S2P	320S2P*2
Battery capacity (BOL) at DC side	573 kWh	573 kWh*2
System output voltage range	864~1168V	
Dimensions of battery unit (W * H * D)*	2180*2450*1730mm(single cabinet)	
Weight of battery unit *	6100kg(single cabinet)	
Degree of protection	IP54	
Anti-corrsion grade	C3	
Relative humidity	0 ~ 95 % (non-condensing)	
Operating temperature range	-30 to 50°C (> 45°C derating)	
Max. working altitude	3000m	
Cooling concept of battery chamber	Liquid cooling	
Fire safety equipment	Combustible gas detection and ventilation system, Water-based fire suppression	
Communication interfaces	Ethernet	
Communication protocols	Modbus TCP	
Compliance	IEC62619,IEC63056,IEC62040,IEC62477,UN38.3, UL9540,UL9540A	
PCS cabinet data		
Nominal AC power	250kVA@45°C	
Max.THD of currennt	<3%(at nominal power)	
DC component	<0.5%(at nominal power)	
Nominal grid voltage	480V	
Nominal grid voltage range	422.4V~528V	
Nominal grid frequency	60Hz	
Nominal grid frequency range	55Hz~65Hz	
Dimensions(W*H*D)*	1800*2450*1230mm	
Weight*	1500kg	
Degree of protection	IP54	
Anti-corrsion grade	C3	
Allowable relative humidity range	0 ~ 95 % (non-condensing)	
Operating temperature range	-30 to 50°C (> 45°C derating)	
Max. working altitude	3000m	
Communication interfaces	Ethernet	
Communication protocols	Modbus TCP	
Compliance	UL1741, UL1741SA Rule 21,IEEE1547:2018,UL1741 SB	

*Subject to actual delivery