

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	ST535kWh-250kW-2h	ST1070kWh-250kW-4h
Battery cabinet data		
Cell type	LFP	
System battery configuration	300S2P	300S2P*2
Battery capacity (BOL) at DC side	537 kWh	537 kWh*2
System output voltage range	810~1095V	
Dimensions of battery unit (W * H * D)*	2180*2450*1730mm(single cabinet)	
Weight of battery unit *	5900kg(single cabinet)	
Degree of protection	IP54	
Anti-corrision 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	Aerosol ,flammable gas detector and exhausting system	
Communication interfaces	Ethernet	
Communication protocols	Modbus TCP	
Compliance	IEC62619,IEC63056,IEC62040,IEC62477,UN38.3	
PCS cabinet data		
Nominal AC power	250kVA@45°C	
Max.THd of curretn	<3%(at nominal power)	
DC component	<0.5%(at nominal power)	
Nominal grid voltage	400V	
Nominal grid voltage range	360V~440V	
Nominal grid frequency	50/60Hz	
Nominal grid frequency range	45Hz~55Hz, 55-65Hz	
Dimensions(W*H*D)*	1800*2450*1230mm	
Weight*	1600kg	
Degree of protection	IP54	
Anti-corrision 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	IEC61000,IEC62477,AS4777.2	

*Subject to actual delivery

