

# PowerStack Liquid Cooling Commercial Energy Storage System(Grid-connected)



## 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	ST570kWh-250kW-2h	ST1070kWh-250kW-4h	ST1145kWh-250kW-4h
<b>Battery cabinet data</b>				
Cell type	LFP			
System battery configuration	300S2P	320S2P	300S2P*2	320S2P*2
Battery capacity (BOL) at DC side	537kWh	573kWh	537kWh*2	573kWh*2
System output voltage range	810~1095V	864~1168V	810~1095V	864~1168V
Dimensions of battery unit (W * H * D)	2180*2450*1730mm (single cabinet )			
Weight of battery unit	5900kg (single cabinet)	6100kg (single cabinet)	5900kg (single cabinet)	6100kg (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			
<b>PCS cabinet data</b>				
Nominal AC power	250kVA@45°C			
Max.THd of currennt	<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			

