

PowerStack Liquid Cooling Commercial Energy Storage System(Off-grid)



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
Battery cabinet data				
Cell type	LFP			
System battery configuration	300S2P	320S2P	300S2P * 2	320S2P * 2
Battery capacity (BOL) at DC side	537 kWh	573 kWh	537 kWh * 2	573kWh * 2
System output voltage range	810 ~ 1095 V	864 ~ 1168 V	810 ~ 1095 V	864 ~ 1168 V
Dimensions of battery unit (W * H * D)	2180 * 2450 * 1730 mm (single cabinet)			
Weight of battery unit	5900 kg (single cabinet)	6100 kg (single cabinet)	5900 kg (single cabinet)	6100 kg (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	3000 m			
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	250 kVA@45 °C			
Max.THD of currentnt	< 3 % (at nominal power)			
DC component	< 0.5 % (at nominal power)			
Nominal grid voltage	400 V			
Nominal grid voltage range	360 V ~ 440 V			
Nominal grid frequency	50 / 60 Hz			
Nominal grid frequency range	45 Hz ~ 55 Hz, 55 - 65 Hz			
Dimensions (W*H*D)	1800 * 2450 * 1230 mm			
Weight	1600 kg			
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	3000 m			
Communication interfaces	Ethernet			
Communication protocols	Modbus TCP			
Compliance	IEC61000,IEC62477,AS4777.2			
Transformer cabinet data				
Transformer capacity	250 kVA@45 °C			
Nominal grid voltage	400 V / 400 V			
Nominal grid frequency	50 / 60 Hz			
Dimensions (W*H*D)	1200 * 2000 * 1200 mm			
Weight	1500 kg			
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	3000 m			

