

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 |
|--|---|-------------------------|-------------------------|-------------------------|
| Battery cabinet data | | | | |
| 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 | | | |
| 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 | 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 | | | |

