

ST6900UX-6H

# PowerTitan 3.0 Liquid Cooled Battery Energy Storage System Container



## LOWER LIFETIME LCOS ( Levelized Cost of Storage )

- High-efficiency stacked cell and SiC PCS, enhancing system RTE
- High energy density battery cell and high power density PCS
- Pre-installed, pre-commissioned, one-click array configuration, one-click inspection



## ENHANCED GRID STABILITY

- ms-level voltage regulation, enhancing grid voltage stability
- Flexible inertia support, enhancing frequency stability
- Incremental dynamic virtual impedance, enhancing phase angle stability
- Rapid plant-level response and precise regulation, empowering high-flexibility grid



## SAFE AND RELIABLE

- Thermal & electric separation design
- Thermal runaway early warning and control, lithium plating diagnosis
- ArcDefender™ energy storage DC arc detection



| Product Name  |   | ST6900UX-6H |
|---|---|-------------|
| <b>DC Side</b>  |   |             |
| Cell type   | LFP   |             |
| Nominal capacity  | 6904 kWh  |             |
| Nominal voltage range                                   | 1101.6 V ~ 1489.2 V   |             |
| <b>AC Side</b>  |   |             |
| Nominal AC power  | 300 kVA * 4   |             |
| THDi  | < 1 % ( Nominal Power )   |             |
| DC component  | < 0.5 %   |             |
| Nominal AC voltage                                      | 690 V   |             |
| AC Voltage Range  | 621 V ~ 759 V   |             |
| Nominal AC Current                                      | 276 A * 3 Phase * 4   |             |
| Power factor at nominal power / Adjustable power factor | > 0.99 / 1 leading ~ 1 lagging  |             |
| Adjustable range of reactive power                      | -100 % ~ 100 %  |             |
| Nominal frequency                                       | 50 Hz / 60 Hz   |             |
| Isolation method  | Transformerless   |             |
| <b>System parameter</b>                                 |   |             |
| Dimensions ( W * H * D )                                | 6058 mm * 2896 mm * 2438 mm   |             |
| Weight  | 55000 kg  |             |
| Degree of protection                                    | IP55  |             |
| Anti-corrosion degree                                   | C4  |             |
| Noise level   | 80 dB A @ 1 m, 35 °C ( 70 dB A optional )   |             |
| Operation temperature range                             | -30 °C ~ 50 °C ( > 45 °C derating )   |             |
| Operation humidity range                                | 0 % ~ 100 %   |             |
| Max. operation altitude                                 | 4000 m  |             |
| Temperature control method                              | Intelligent Liquid Cooling  |             |
| Fire suppression system                                 | Default: FACP, Flammable gas detector, Smoke detector, Heat detector, Sounder beacon, Alarm bell, Extinguishant abort button, Ventilation system, Extinguishant release button, Gas release indicator, Aerosol<br>Optional: Sprinkler, Explosion vent panel, Pressure relief port, FK5112 |             |
| Communication   | Ethernet  |             |
| Standard  | UL 9540A, IEC 62619, IEC 61000-6-2, EN55011, IEC 62933-5-2, UN 38.3 / UN 3536, IEC 62477-1, IEC 62443-4-2   |             |