

ST6900UX-8H

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



SAFE AND RELIABLE

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



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



Type designation		ST6900UX-8H
DC Side		
Cell type	LFP	
Nominal capacity	6904 kWh	
Nominal voltage range	1101.6 V ~ 1489.2 V	
AC Side		
Nominal AC power	450 kVA * 2	
THDi	< 1 % (Nominal Power)	
DC component	< 0.5 %	
Nominal AC voltage	690 V	
AC voltage range	621 V ~ 759 V	
Nominal AC current	414 A * 3 Phase * 2	
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	
System parameter		
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 @ 1m, 35 °C (70dBA 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 Optional: Sprinkler, Explosion vent panel, Pressure relief port, FK5112	
Communication	Ethernet	
Standard	UL9540A, IEC 62619, IEC 61000-6-2, EN 55011, IEC 62933-5-2, UN 38.3 / UN 3536, IEC 62477-1, IEC 62443-4-2	

