

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
Normal 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

