

ST6900UX-4H

PowerTitan 3.0 Liquid Cooled Energy Storage System Datasheet



LOWER LIFETIME LCOS

- High-efficiency stacked cell and SiC PCS, enhancing system RTE
- High energy density battery cell and high power density PCS, enhancing 20ft battery cabinet capacity increased by 33%
- Pre-installed, pre-commissioned, one-click array configuration, one-click inspection



SAFE AND RELIABLE

- Thermal runaway early warning and control, lithium plating diagnosis
- ArcDefender™ energy storage DC arc detection
- Wireless-free deployment, end-to-end communication encryption



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
- 90ms plant-level response and precise regulation, empowering high-flexibility grid



Product Name		ST6900UX-4H
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 * 4
THDi		< 1 % (Nominal Power)
DC component		< 0.5 %
Nominal AC voltage		690 V
AC voltage range		621 V ~ 759 V
Norminal AC current		414A*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
System parameter		
Dimensions (W * H * D)		6058 mm * 2896 mm * 2438 mm
Weight		55000 kg
Degree of protection		IP55
Anti-corrosion degree		C4
Operation temperature range		-30 °C ~ 45 °C
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, IEC61000-6-2, EN55011, IEC62933-5-2, UN38.3 / UN3536, IEC62477-1, IEC62443-4-2