

Liquid cooling BESS for C&I

TESS-100-233-Y



Product Overview

The liquid cooling energy storage system is an integrated product mainly developed for industrial and commercial customers. With highly integrating of battery system, EMS , PCS , liquid cooling and fire protection system in one. The modular design is convenient for installation and maintenance. and can meet various application scenarios such as dynamic capacity expansion,load shifting as peak shaving and valley filling, benefit from peak-valley arbitrage and power support.



High efficiency liquid cooling technology, battery cell temperature difference $<3^{\circ}\text{C}$.



All-in-one design, cabinet transportation, plug-in and ready to use.



Intelligent monitoring system, integrated management of BMS and EMS. more intelligent and safe



Built-in independent fire protection system



Model	TESS-100-233-Y
Mode	Load shifting, peak-valley arbitrage benefit, limited power supporting
AC (Grid tied)	
Rated Power	100kW
Rated Voltage	230/400Vac, 3P+N+PE
Max. Continuous Input Current	158A
Frequency	50Hz
Power Factor	0.8 CAP ~ 0.8 IND
THDi	5%
Battery Side	
Cell Capacity	233kWh
Cell Type	LiFePO4
Cycle Life	≥6000 Cycles (0.5P, 25°C, 80%EOL, 90%DOD)
Rated Voltage	832V
Voltage Range	650V ~ 949V
Charge/Discharge Efficiency	≥95%
Max. Charging/Discharging Power	165A
Basic Parameters	
AC/DC Start Function	≤10ms
Protection Function	Over /under voltage, Over current, Over/low temperature, SOC too high/low Low insulation impedance, Short circuit protection, etc
Operating Temperature	-30°C ~ +60°C (>45°C derating)
Cooling	Air Cooling + Liquid Cooling
Max. Altitude	3000m
Fire Protection	Aerosol + C6F12O (Optional) fire extinguisher
Max. Efficiency	92% (Auxiliary power is not included)
IP Level	IP54 (Battery IP67)
Noise	<70dB@25°C
Communication	RS485, CAN, Ethernet, Modbus, TCP/RTU
Dimensions (W×D×H)	1000mm×1400mm×2350mm
Weight	2500kg