

ENERGY STORAGE SYSTEM

- MV & HV SERIES

TRITON-6251



Generator · Grid · Mobile Energy Storage · Industrial Park · Grid Edge/Island · Data Center

Extended Lifetime



- PV-ESS lifetime parity — no extra battery replacement needed
- Full active balancing, eliminates the weakest-link effect
- Intelligent THCS with system-level optimization

More Versatile



- Compatible with centralized/string-type, and coupled PCS systems
- High protection, wide temperature range, extreme-condition ready
- Optimized for 4-hour long-duration energy storage

Higher Efficiency



- 30% Capacity boost, maximized energy density
- 30V cluster voltage tolerance, no circulating current
- Independent cluster isolation and maintenance for higher uptime

Safe & Reliable



- Smart thermal management maintains cabin $\Delta T \leq 3^{\circ}\text{C}$
- Cell-level thermal barrier and DCR testing
- Comprehensive safety design with dual protection & top air outlet

PRODUCT SPECIFICATIONS

Model	TRITON-6251
Battery Side	
Nominal Capacity	6251.32kWh
Cell Type	LFP3.2V/587Ah
Configuration	1P416S*8
Charge/discharge Rate	0.25P/0.33P/0.5P
DC Voltage	1331.2V
Voltage Range	1164.8V~1497.6V
System Side	
Dimension(W*D*H)	6058x2438x2896mm
Weight	≤48t
Protection (IP) Rating	IP55
Noise Level	≤80dB@1m
Operating Temperature Range	-30℃~55℃（> 45℃ derating）
Operating Humidity Range	0~95%（no condensation）
Maximum Operating Altitude	3000m（>3000m derating）
Thermal Management Method	Intelligent Liquid Cooling
Fire Suppression System	PACK-level Detection、Container-level Detection、PERFLUORO、Water Sprinkler
Communication Interface	CAN, RS485
Communication Protocol	IEC 61850, CAN 2.0B, Modbus TCP, IEC 104
Certificates	GB/T 44240-2024
Warrenty	5 years

ENERGY STORAGE SOLUTION

