



String ESS

WP-TERRA3000-5.01-E1

Product Description

WP-TERRA3000-5.01-E1 is a high-capacity, modular energy storage system designed for utility-scale application. Engineered for reliability and scalability, it enables efficient power management, grid stabilization, and peak load shifting. Its containerized architecture simplifies deployment, enhances safety, and supports intelligent monitoring, delivering consistent performance across diverse environmental and operational conditions dynamic.

Product Features



All-architecture Safety



All-scenario Grid forming



All-lifecycle Cost-effectiveness



Precise SOC calibration



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Technical Specification

Battery Container	
Model	WP-TERRA3000-5.01-E1
DC Rated Voltage	1,331.2 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	5,015 kWh
Charge & Discharge Rate	≤ 0.5 C
Rated Power	2,507.5 kW
Dimension (W x H x D)	6,058 × 2,896 × 2,438 mm
Weight	≤ 43 t
Operation Temperature Range	-30°C ~ 55°C
Storage Temperature Range	-35°C ~ 60°C (With Coolant), -40°C ~ 60°C (Without Coolant)
Relative Humidity	0 ~ 100% (Non-condensing)
Max. Operating Altitude	4,700 m
Cooling Method	Liquid Cooling
Fire Suppression System	On Cell, PACK and Container levels
Battery Container	
Communication Interface	Ethernet / SFP
Communication Protocol	Modbus TCP
Protection Degree	IP55
Anti-corrosion Degree	C5-Medium
Standards Compliance	
CE, IEC62477-1, IEC62040-1, IEC61000-6-2, IEC62933-5-2, UL9540A, IEC62619, UN38.3, etc.	
Battery Pack	
Cell Material	LFP
Number of Cell	104
Nominal Capacity	314 Ah / 104.5 kWh
Protection Degree	IP65
Weight	≤ 710 kg
Dimensions (W x H x D)	785 × 249 × 2135 mm