

Titan-S100/241/200-WS

Outdoor Cabinet Air Cooling PV Energy Storage System



* The appearance of the product is for reference only

Outdoor cabinet air cooling PV energy storage system developed by LEOCH. The system adopts modular design and integrates battery energy storage unit, battery management system, temperature control system, fire control system and hybrid inverter and other equipment. As an all-in-one optical storage device, the System features efficient thermal management, multiple safety design, compact structure (small footprint), convenient transportation, installation and maintenance. The products are widely used in industrial, commercial, and large-scale energy storage scenarios by matching hybrid inverters, such as peak and valley filling, photovoltaic energy storage and frequency regulation, microgrid, and emergency backup power applications.

Easy to Install

Plug and play, instant use; The battery cabinet has IP55 protection grade and C3 corrosion protection grade, and can be deployed outdoors

Safe and Reliable

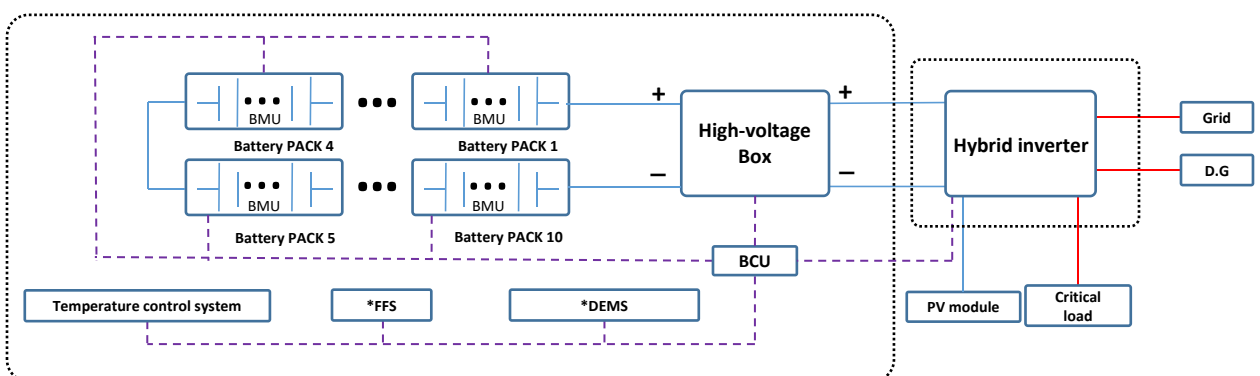
Multi-fire design, unit level temperature detection + Cabinet level aerosol fire extinguishing + explosion-proof pressure relief + water fire fighting

Flexible deployment

Modular design, flexible expansion, parallel design of multiple machines, supporting rapid expansion to megawatt scale system

Rich configuration

It supports the simultaneous access of load, battery, grid and diesel generator and photovoltaic



..... Leoch Equipment - - - - - Communication Line ——— DC Power Line ——— AC Power Line

*DEMS: Dynamic Environment Monitoring System; *FFS: Fire Fighting System

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System Model	Titan-S100/241/200-WS	Titan-S100/221/200-WS
Battery Parameters		
Cell Type	LFP3.2V/314Ah	
Battery PACK Type	1P20S	
Cluster Configuration	1P240S	1P220S
Nominal Energy	241.152kWh	221.056kWh
Nominal Battery Voltage	768V	704V
Battery Voltage Range	672V ~ 864V	616V ~ 792V
Charge and Discharge Rate	0.5C	
AC Parameters		
Type of grid connection	3/N/PE	
Rated Power	100kW	
Rated Voltage	AC 220 V / 380 V, 230 V / 400 V	
Rated Current	144A	
Rated Grid Frequency	50/60Hz	
THD	≤3%	
System Parameters		
Dimensions (W*D*H)	Hybrid inverter: 1174*400 *814mm; Battery Cabinet: 1170*1456*2100 mm	
Weight	Hybrid inverter: About 170 kg; Battery Cabinet: About 2000 kg	
IP Level	IP66 (Hybrid inverter) ; IP55 (Battery Cabinet)	
Cooling method	Intelligent fan (hybrid inverter) ; Air conditioner (battery cabinet)	
Fire Fighting System	Cabinet level aerosol fire extinguishing + explosion- proof pressure relief + water fire fighting	
Grade of corrosion protection	C3	
Relative Humidity	0-95% (no condensation)	
Operating Temperature	-20°C~55°C	
Altitude	< 2000 m	
Communication Interface	RS485, Ethernet	
Communication protocol	Modbus RTU, Modbus TCP/IP	
PV Parameters		
PV input power	200kW	
MPPT voltage range	150V -950V	
Maximum input current	10×42A	
Number of MPPTs	10	
Number of PV input channels	20	
Automatic switching function between On-grid and Off-grid		
Switching time	<10ms	