

Titan-S50/160/100-WS

Outdoor Cabinet Air-cooled PV Energy Storage System

Outdoor cabinet air-cooled 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, it features efficient thermal management, multiple safety design, compact structure (small footprint), convenient transportation, installation and maintenance. The product is widely applied in industrial, commercial and large-scale energy storage scenarios, such as peak shaving and valley filling, photovoltaic energy storage and frequency regulation, microgrids, and emergency backup power supply applications, etc.



* The appearance of the product is for reference only



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



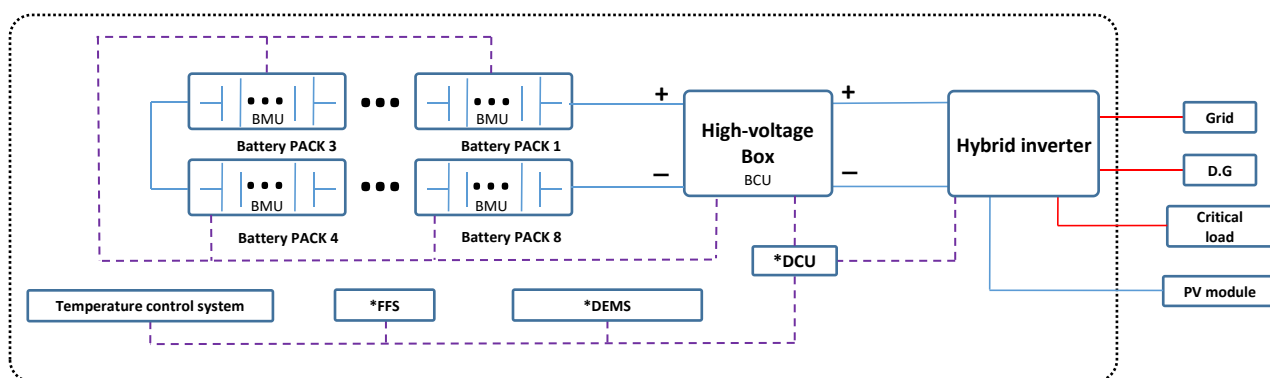
Flexible deployment

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; *DCU: Display & Control Unit

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System Model	Titan-S50/160/100-WS
Battery Parameters	
Cell Type	LFP3.2V/314Ah
Battery PACK Type	1P20S
Cluster Configuration	1P160S
Nominal Energy	160kWh
Nominal Battery Voltage	512V
Battery Voltage Range	448V ~ 576V
Charge and Discharge Rate	0.5C
AC Parameters	
Type of Grid connection	3L/N/PE
Rated Power	50kW
Rated Voltage	AC 400V
Rated Current	72A
Rated Grid Frequency	50/60Hz
THD	≤3%
System Parameters	
Dimensions (W*D*H)	Battery: 800*1330*2360 (mm) Hybrid inverter: 530*290*880 (mm)
Weight	About73kg (Hybrid inverter) ; About1450kg (Battery)
IP Level	IP66 (Hybrid inverter) ; IP55 (Battery)
Cooling Method	Intelligent fan (Hybrid inverter) ; Air conditioner (Battery)
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~50°C
Altitude	< 2000 m
Communication Interface	RS485, Ethernet
Communication Protocol	Modbus RTU, Modbus TCP/IP
PV Parameters	
PV Input Power	100kW
MPPT Voltage Range	150V-850V
Number of MPPTs	4
Number of PV input channels	8
Hybrid Inverter Automatic Switching Function Between On-grid And Off-grid	
Switching time	<10ms