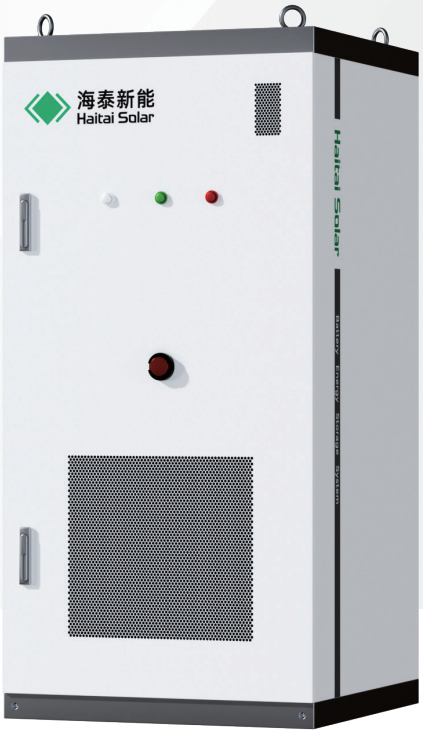
Haitai Solar

261kWh Liquid-Cooled Energy Storage System

HT-125-261-LC



Product Introduction

Adopting an "All In One" design concept, the system integrates battery packs, BMS (Battery Management System), EMS (Energy Management System), PCS (Power Conversion System), thermal management system, and fire suppression system into a single cabinet, forming a standardized, plug-and-play modular energy storage system.

Product Features

Safe & Reliable

Three-level overcurrent protection (pack-level, cluster-level, and PCS-level). Arc fault detection with millisecond-level disconnection from cell to system. AI-based cell pre-diagnosis system for accurate warning and thermal runaway suppression, eliminating risk of combustion and explosion.

Small Footprint

Single cabinet covers only 1.35 m^2, with 12% higher energy density. Multiple cabinets can be connected in parallel for cluster control. Capacity configurable on demand, optimized design. Flexible installation and access adapted to local conditions.

Smart & User-Friendly

Remote intelligent wireless operation; OTA one-click remote upgrade. Four-layer security protection (cloud, pipe, edge, device) ensuring zero data leakage. Full lifecycle service with fast inspection and maintenance-free operation.

Intelligent & Efficient

AC-DC integrated design with intelligent cluster-level management, extending battery life by over 2 years.

应用场景

Renewable Energy Power Generation

Power Transmission & Distribution

Telecom Base Stations

Industrial & Residential Power Usage

Island Off-Grid Energy Storage

Specifications

Parameter	HT-125-261-LC
AC Side Parameters	
Rated Power	125kW
Rated Grid Voltage	400V
Voltage Deviation	-15%~+15%
Power Factor	1 (leading) ~ 1 (lagging)
THDi	< 2% (rated power)
Connection Mode	3W+N+PE, three-phase four-wire
Battery Parameters	
Cell Type	$LiFePO_4$ / 314 Ah
Configuration	1P52S*5
Nominal Voltage	832V
Rated Capacity	261kWh
Thermal Management	Intelligent liquid cooling
Rated Charge/Discharge Power	0.5P
General Parameters	
Communication Protocols	CAN/RS485/Modbus TCP
Fire Suppression	Compartment-level + pack-level perfluorohexanone, and compartment-level water fire suppression
Operating Temperature	Discharge: -20° C to 55° C; Charge: 0° C to 55° C
Operating Humidity	0–99% RH (non-condensing)
Max. Operating Altitude	4000 m (derating above 2000 m)
Protection Rating	IP55 (battery compartment)
Weight	Approx. 2200 kg
Dimensions (W×D×H)	1000*1350*2350mm

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