NewTrend



YHV-5000BLC

NewTrend 5MWh Liquid-Cooled Containerized Energy Storage

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Supplied certification, system configuration and OEM warranty: To be confirmed.

Service, warranty and conformity statements refer to the source design; supplied OEM terms require confirmation.

Product Introduction

YHV-5000BLC is a containerized energy storage system in the nominal 5MWh class (5016kWh).
The DC container integrates LFP cells, three-level BMS, liquid cooling, fire protection and dehumidification.

BESS adopts an "All-In-One" design concept, with ultra-high integration that combines energy storage batteries, three-level BMS (Battery Management System), fire protection, liquid cooling unit, dehumidification air conditioning, and more into a single unit, making it adaptable to various scenarios.

5MWh liquid cooling energy storage system product features a prefabricated cabin design flexible deployment, convenient transportation, and no need for internal wiring and debugging. It responds quickly, boasts high reliability, and offers functions such as peak shaving, power capacity expansion, emergency backup power, grid balancing, capacity management, and multi-level parallel connection.

Application Scenario

grid side: load corresponding , peak regulation, grid dispatching, energy transfer;
user side: peak cutting and valley filling , anti-reflux zero feedback, time-of-sale price, optical storage and charging;
micro-grid: light storage and firewood micro-grid , automatic and off-grid switching, black starting;

Product Features

Safe and reliable

IP55 protection grade design, cluster level aerosol layout, BMS and AC/DC multi-layer protection Settings to ensure the safe operation of the system;

Cost optimization

Small size, light weight, save floor space and installation costs, can be pre-installed whole system transportation, long life, low failure rate, low operation and maintenance costs;

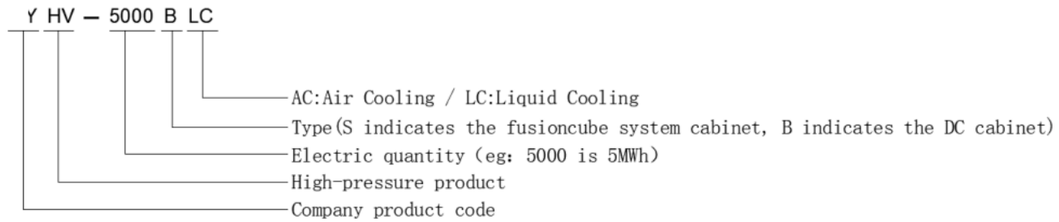
Efficient and convenient

Batteries, PCS, etc., all adopt modular design for easy installation and transportation, and can remotely guide configuration, equipment management, data analysis, fault prediction, etc.

Rich scene

Application strategies can be customized in different environments to meet product requirements;

Specifications and Model Description



Tip:"/" can be sequentially stacked after

Product Parameter

Type designation	YHV-5000BLC
Battery Data	
Cell type	LFP 3.2V / 314Ah
Battery configuration	(1P104S*4)×12
Battery capacity	5016kWh
Battery current	1884A
Nominal Voltage	1331.2V
Battery voltage range	1123.2V~1497.6V
System parameter	
Dimension（W*H*D）	6058*2896*2438
Weight	42000kg
IP grade	IP55
Anti-corrosion degree	C3(Support C5)
Operating temperature	-30 to 55°C(>45°C derating)
Operating humidity	0 ~ 95%(non-condensing)
Working altitude	3000m
Temperature control	Intelligent liquid cooling
Fire suppression system	NFPA 69 explosion prevention and Aerosol
communication protocol	Modbus TCP, MQTT
Standard	IEC 62477, IEC 61000-6-2, IEC 61000-6-4, IEC 62619, UN 38.3/UN 3536

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