

Small industrial and commercial distribution energy storage cabinet 50kw/115kwh

OBST ESS products are mainly composed of power battery clusters, storage inverters and off-grid switching units STS, frequency conversion temperature control systems, precision suppression and explosion venting combined fire protection systems, electrical auxiliary equipment and weather-resistant sheet metal cabinets.

An intelligent digital 50kW/115kWh system comprehensively managed by BMS and EMS.



Commercial building



Industrial park



Mining area



Island



Pastoral area

Product features

- Safety:
 - Electrical multi-dimensional fusion perception, multi-level protection;
 - Internal integration of energy storage/PCS, off-grid control unit STS and other equipment, more unified bus control, improve system stability;
 - Adopts the design concept of very early thermal runaway risk warning, integrates detection, fire extinguishing, flammable gas detection, smoke exhaust, and explosion venting functions, and is linked to BMS and EMS for protection and PACK-level fire-fighting targeted fire extinguishing to ensure the safe operation of energy storage. ;
 - Intelligent temperature control system, system temperature difference $\leq 5^{\circ}\text{C}$, battery cycle life increased by 12%;

Minimalist:

All in one design, modular installation, a single cabinet covers an area of only 1.265m²;
 It can be used in all industrial and commercial application scenarios and is network-connected friendly;
 ·Simple hand-in-hand parallel expansion, covering a wide power range of 50kW-300kW;
 ·Overall delivery, factory prefabrication, and complete machine transportation facilitate installation and operation and maintenance, reducing operation costs.
 The transmission, installation and commissioning fee is 15%.


Intelligent:


Cloud platform management system, supports remote/local monitoring, intelligent cloud operation and maintenance without experts
 Door-to-door maintenance:
 Intelligent balancing strategy and system AI early warning ensure the consistency of the battery throughout its life cycle:
 Supports black start function, reliable power supply in off-grid/micro-grid mode;
 Multiple operating mode options (support virtual power plant, grid-connected, off-grid) to increase profits.

Technical Parameters

Model number	OBST ESS - 5T0115-P0050A	
Energy storage parameters	Rated energy	115.2kWh
	Rated Capacity	150Ah
	Rated Voltage	768Vdc
	Battery voltage range	672~864Vdc
	fixed charge/ discharge current	65A
	Max. charge/discharge current	88A
PCS parameters	Rated output power	50kW
	DC side operating voltage range	580 ~1000 Vdc
	Max current on the flow side.	88 A
	AC side rated voltage	400Vac @ 3L/N/PE
	AC side working Voltage range	300 ~ 440Vac
	Rated grid frequency	50Hz/60Hz
	Current total harmonic distortion	<3%@at rated power
	Total harmonic distortion	<3%@rated power & linear load
	Max. efficiency	98.6%
	Operating temperature	-20°C ~ 50°C
Environmental parameters	Storage temperature	-20°C~ 45°C
	Relative humidity	5 ~ 95%. No condensation
	Altitude	2000m (derate above 2000 meters)
	Heat dissipation method	Smart air conditioners, smart fans
	Other Parameters	Size(W*D*H)
Weight		Net weight 1300kg, gross weight with packaging 1330kg
Protection level		IP54
Communication method		485. Ethernet, 4G
Certification		UN38.3, IEC62619, EMC

■ The technical specifications of this product are subject to change without prior notice.

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