

BLUE STAR 1.0

Industrial and commercial energy storage system

PCS:100kW/125kW/215KW

Energy storage battery:

215kWh/233kWh/261kWh/372kWh/418kWh



Product Introduction

- ◆ Haitai digital energy industry & commerce energy storage system is integrated with liquid-cooled battery PACK, high-accuracy BMS (battery management system), intelligent EMS (energy management system), PCS and fire prevention system, etc.
- ◆ Flexible application in different scenarios based on modular design.
- ◆ The system can improve the energy quality of power grid, such as voltage deviation, 3-phase imbalance and harmonic wave.
- ◆ Fitted with functions such as load tracking, standby power supply and peak regulation.
- ◆ The system can help industry & commerce owners reduce the electricity expense, increase the green electricity consumption, and maintain the safe and stable running of system.

Main advantages



Efficient liquid cooling technology, cell temperature difference <3°C



Built-in independent firefighting system



Intelligent monitoring system, integrating BMS and EMS intelligent safety system



All-in-one, easy transport, plug and play

Anwendungsszenarien

*Base station

5G communication base station
Backup cell, charging at high battery level or discharging at low battery level



*Renewable energy power generation

Peak load and frequency regulation
Smooth the intermittent energy sources
Increase the new energy consumption



*Power transmission and distribution

Auxiliary services
Delay the demand for capacity expansion of grid



*Island off-grid energy storage

Microgrid
Energy storage in area without electricity



*Industrial and domestic electricity

Peak-load shifting
Level loads and restrain demands Improve power supply safety and quality of electric energy



Model	HTDESS-100TS(DC100) (233kWh)
Battery rated capacity	233kWh
Battery rated voltage	832V
Battery voltage range	728V~936v
Battery type	Lithium iron phosphate battery(LFP)
Battery cell capacity	280Ah
Series of Battery	1p*52S*5S
Maximum charge and discharge current	140A
Rated AC power	100kW
Rated AC current	180A
Rated AC voltage	400V,3W+PE
Rated AC frequency	50/60Hz
THDI	<3% (Rated power)
Power Factor	-1leading to+ 1 lagging
THDU	<3%(Linear load)
Degree of protection	IP54
Protective Class	/
Isolation mode	No-Isolation(Adding isolation transformer is optional)
Shutdown self-discharge	<100W(Without transformer)
Display	LCD
Relative humidity	0~95% (no condensation)
Noise	<78dB
Ambient temperature	-25°C to +60°C (with derating at temperatures above 45°C)
Cooling mode	Intelligent air-cooled
Altitude	3000m(>3000m reduction)
Communication interface	CAN/Ethernet/485
Size (W*D * H)	1612*1350*2300mm
Weight (approx.)	3025kg