

BSC Series

BSC-125KW- 261KWH

Commercial energy storage system Standard Proposal



Advantages & Highlights:

Security:

Partition safety isolation, active safety monitoring, early warning design, to ensure that the system is safe and controllable.

Intelligence:

A variety of control modes include: embedded cutting peak and valley filling, demand management, light storage and charge control, high Speed scheduling, operation data can be accessed to BLUESUN ESS Cloud through wifi ENERGY, 4G, 5G, LAN, etc.Realize unattended.

Economy:

Zero tolerance loss, efficient multi-frequency conversion, temperature control.

Convenience:

Its output can be directly connected to wind power and photovoltaic systems, integrating all energy storage system components. single Cabinets can be completely controlled independently, and multiple cabinets can be connected in parallel to realize the capacity expansion function of the energy storage system Unified perfect docking.

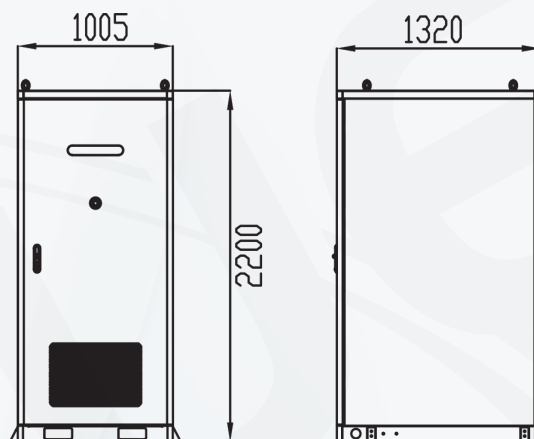
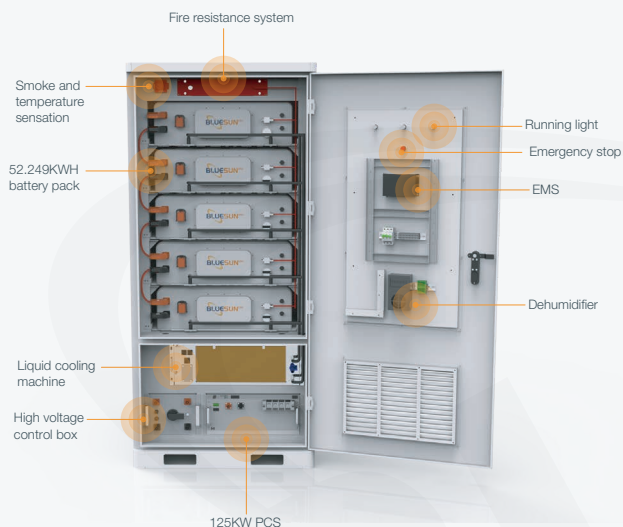
Item	Configuration	1P260S
	Rated Energy	261KWH
	Rated Voltage	832VDC
	Voltage Range	728~910VDC
General Parameters	Operating Temperature	-30~55°C
	IP Level	IP66
	Cooling Mode	Liquid Cooling
	Communication	RS485/CAN/Ethernet
	Coolant	50% Ethylene glycol aqueous solution
Battery Side	Operating Voltage Range (V)	615~950(3W+PE)/650~950(3W+N+PE)
	Full-load Voltage Range (V)	615~950(3W+PE)/680~950(3W+N+PE)
AC Side (Grid Connection)	Number Of Input Roads	1
	Rated Voltage (V)	230/400
	Voltage Deviation	-15%~+15%
	AC Output Type	(3W + PE) three-phase three line / (3W + N + PE) three-phase four line
	Rated Output Power (KW)	125
	Maximum Output Power (KW)	138
	Maximum Current (A)	200
	Rated Grid Frequency (Hz)	50/60
	Power Factor	0.99
	Power Factor Range	1 (advance) ~1 (lag)
	Current Distortion Rate	<2% (rated power)
	Direct Component	<0.5%
	Overload Capacity	110% Long term
	Maximal Efficiency	98.5%
AC-Side (Off-grid)	Rated Output Voltage	230/400
	AC Voltage Harmonic	<3% (linear load)
	Rated Frequency (Hz)	50/60
	Rated Output Power (KW)	125
	Maximum Apparent Power (KVA)	138
	Maximum Output Current (A)	200
Package	Size(mm)	1320*1005*2200 / 1410*1200*2380(Packaging size)
	Weight(KGS)	2465.5 / 2589(Gross Weight)
Standard Requirement	Cell	UN38.3/IEC/UL
	Rack	UN38.3/IEC/CE

Structure

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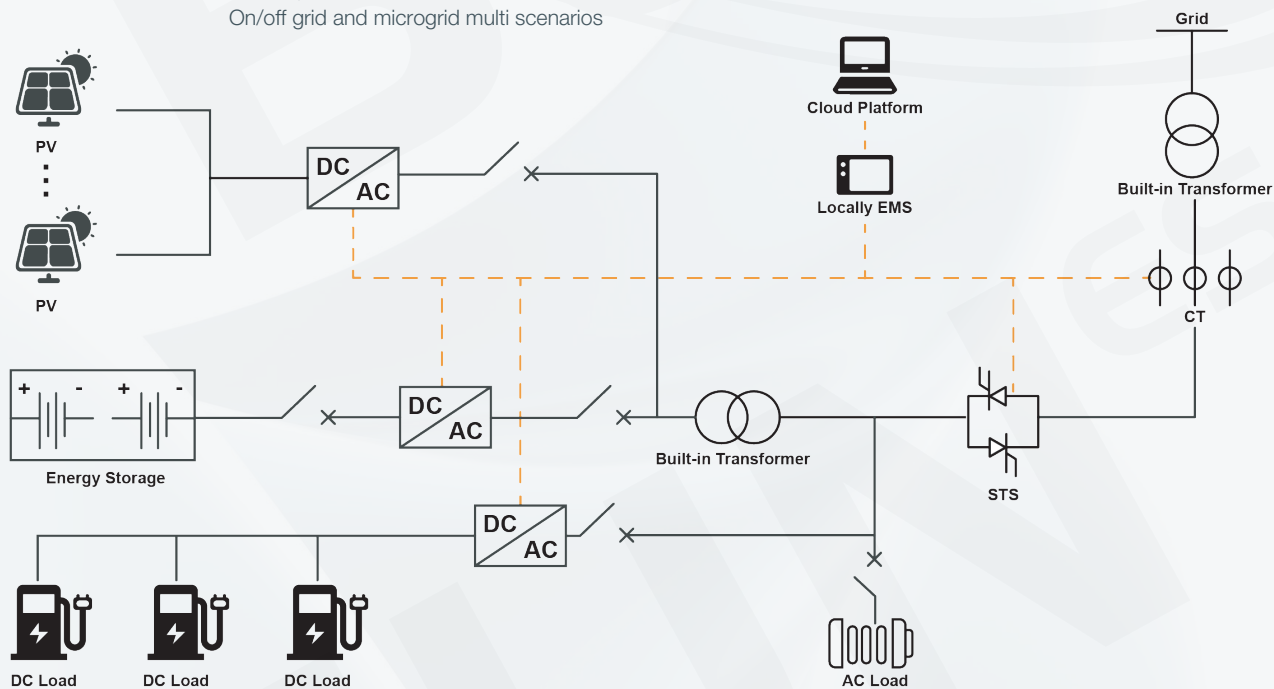


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System Diagram

Optional STS
Clients provide distributions
On/off grid and microgrid multi scenarios



Description

System consists of Battery rack consists of 125KW inverter and 5 battery modules, one control box, EMS, chiller, fire protection, etc. Battery cell is the most basic battery unit. BMS is composed of CSC and SBMU. BMS gathers status data from cell, module and rack, and exchange information with other components.

Battery module consists of 1P 52S Battery Cell and one CSC. Control Box responses for controlling the main power line.

EMS can run different modes of the system including peak and shaving mode/ self-sing mode/UPS mode, etc.

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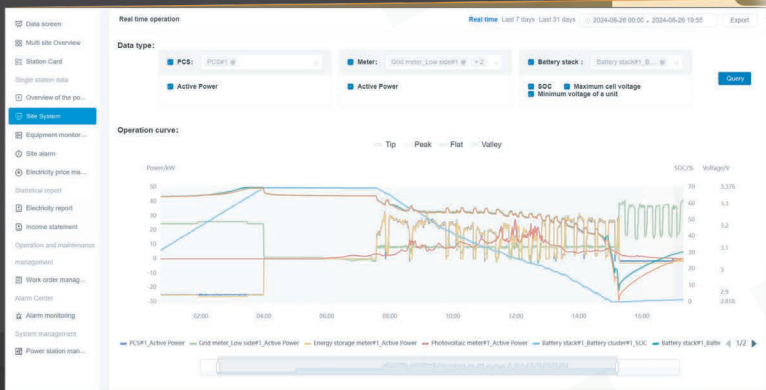
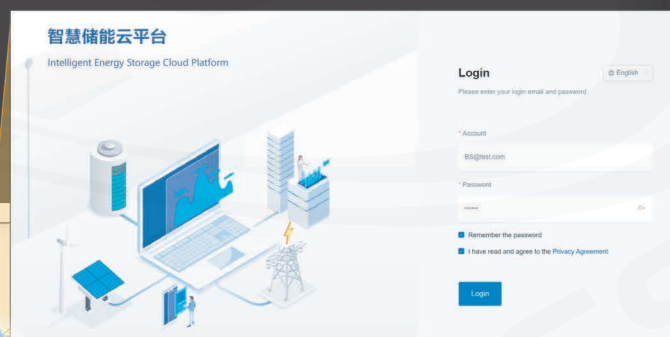
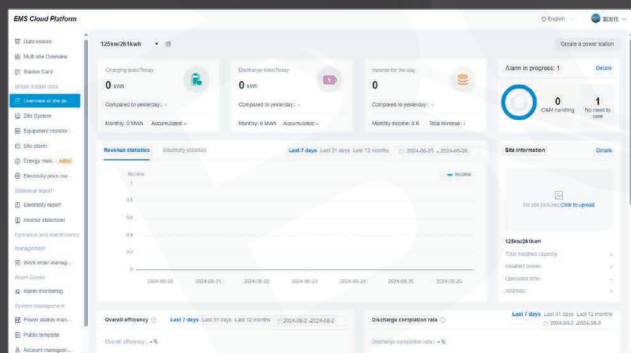
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Site System

The site system displays the real-time data overview, energy flow chart, power data trend, alarm status, real-time device running trend, and real-time power income of the system in the cloud platform in card mode.

- Support to switch sites and systems on the current page.
- Support "Energy management" operations for individual systems on the current page.
- Real-time electricity revenue update revenue data on an hourly basis.
- Live Run.
- The data type filters the items displayed in the Run Curve according to the option.



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*Release BSx - xxxkWxxxKWH
2024-09_Rev01_EN