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.

Economy:

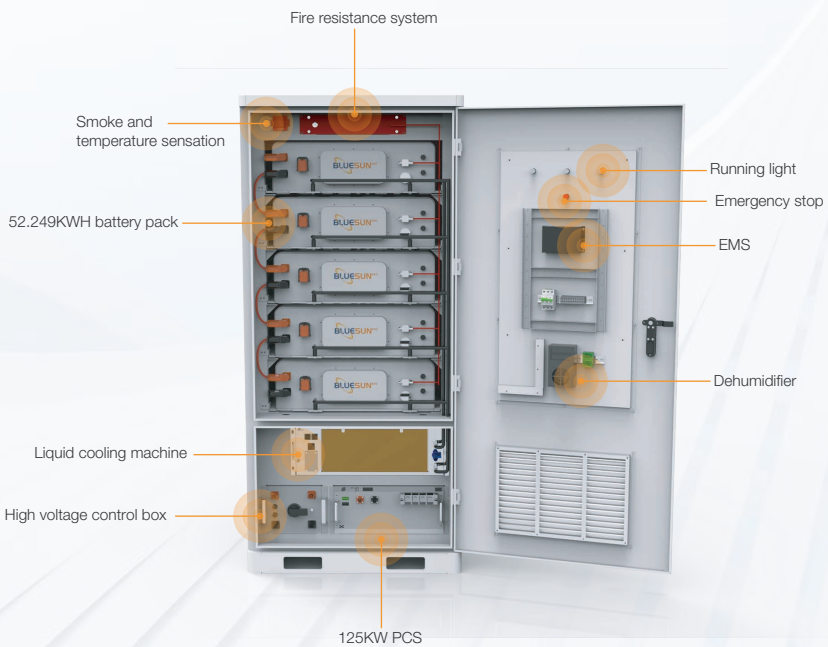
Zero tolerance loss, efficient multi-frequency conversion, temperature control.

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.

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.



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Describation :

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 inclusing peak and shaving mode/ self-sing mode/UPS mode,etc.

BATTERY RACK

ITEM	Specification
Configuration	1P260S
Rated Energy	261KWH
Rated Voltage	832VDC
Voltage Range	728~910VDC
Charging Current	
Rated	140A
Maximum	280A
Discharge Current	
Rated	140A
Maximum	280A
Operating Ambient Temperature	
Charge	0~50℃
Discharge	-10~50℃
General Parameters	
Size	-
Weight (T)	2.3
Ip Level	IP66
Cooling Mode	Liquid Cooling
Communication Agreement	CAN
Power Connection	Fast Plug
Communication Connection	Fast Plug
Aux Power Connection	Fast Plug
Coolant	50% Ethylene glycol aqueous solution
Standard Requirement	
Cell	UN38.3/IEC/UL
Rack	UN38.3/IEC/CE

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*Release BSx - xxxKW -xxxKWH_2024-07_Rev01_EN

INVERTER

ITEM	Specification
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)
Number Of Input Roads	1
Maximum Current (A)	203
AC Side (Grid Connection)	
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

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125KW/261KWH

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