



Industrial and Commercial ESS_On-Grid

100kW/225kWh

Features



System productization, integrating energy storage battery, PCS and power distribution, temperature control and fire protection, flooding door magnet, and monitoring and communication, comprehensively controlling system operation status and risk.



Patented outdoor cabinet protection design, optimized cooling air ducts, protection from dust and rain; front and rear doors open for maintenance, which facilitates side-by-side arrangement of multiple systems on site and reduces floor space.



Door-mounted embedded integrated air-conditioning, does not take up cabinet space, improve the available space of outdoor cabinets, better structural integrity of the top, good waterproof effect.



The local control panel can realize diversified functions such as system operation monitoring, energy management strategy formulation, and equipment remote upgrade.



Grid-connected application equipment (BHF-X225) supports 10 parallel units with a maximum capacity of 2.25MWh.



For the existing PV configuration users, you can directly increase the BHF-X225 equipment, in the AC test and use.

DC Side Parameters

Model	BHF-X225
Nominal Voltage(V)	806.4
Total Energy (kWh)	225.8
Nominal Power (KW)	112.9
Max power	150
Rated Charge/Discharge Current (A)	140
Max charge/Discharge Current(A)	200/200
Cooling Type	Air-Cooling

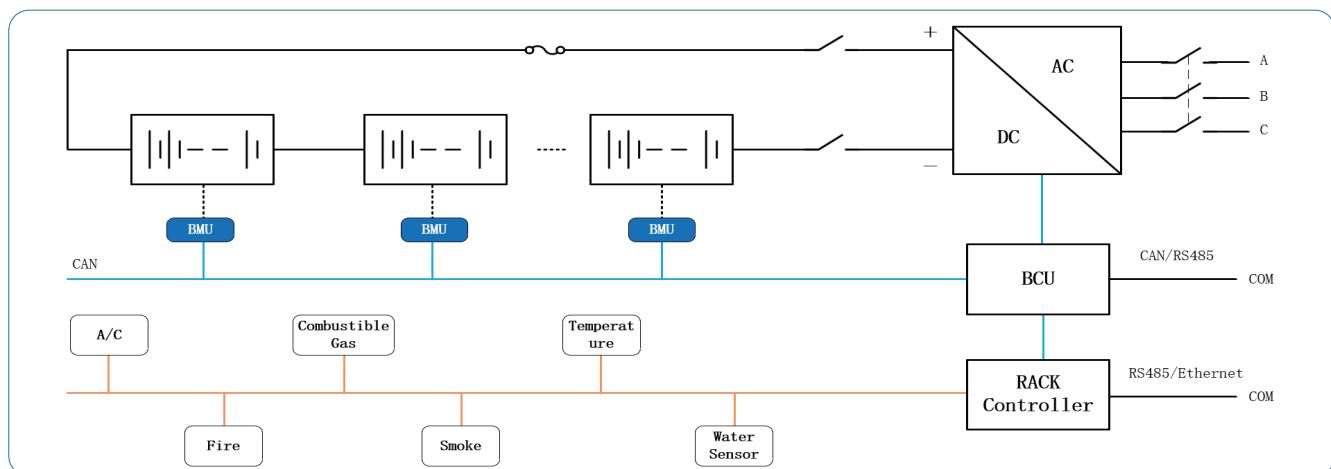
AC Side Parameters

Rated Power	100kW
Max Power	110kVA
Rated AC Voltage	400Vac, 3W+N+PE/3W+PE
Rated Frequency	50/60Hz (±5)
Overload Capacity	110%, Regular Operation; 120%, 1 min;
Power Factor	1 (Lead) ~1 (Hysteresis)
Maximum Conversion Efficiency	98.50%

System Parameters

Protection Rating	IP55
Dimensions	2120*1500*1200mm
Weight	2600/2470/2340Kg
Design Life	≥15year

Product Diagram





BHF-X225 Battery Cabinet



PCS+Isolation Transformer+STS

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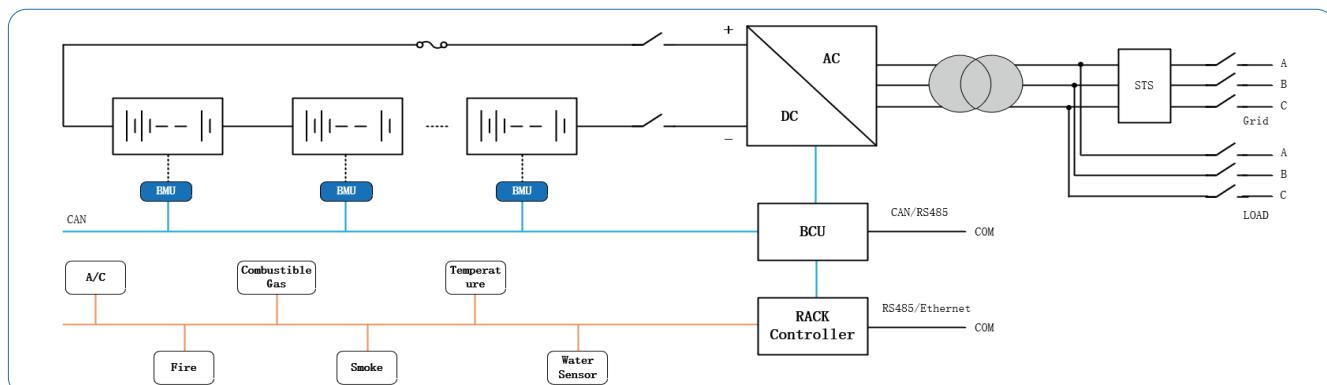
AC Side Parameters

Rated Power	100kW
Max Power	110kVA
Rated AC Voltage	400Vac, 3W+N+PE/3W+PE
Rated Frequency	50/60Hz (± 5)
Overload Capacity	110%, Regular Operation; 120%, 1 min;
Power Factor	1 (Lead) ~1 (Hysteresis)
Maximum Conversion Efficiency	98.50%

System Parameters

Protection Rating	IP55
Dimensions	2120*1500*1200mm
Weight	2600/2470/2340Kg
Design Life	≥15year

Product Diagram



PCS Parameters

Model	Monet-50AC
Rated Power	50kW
Max Power	55kVA
DC Voltage Operating Range	500 - 900V
DC Side Full Load Voltage Range	500 - 900V
Max DC Current	110A
Rated AC Voltage	400Vac, 3W+N+PE/3W+PE
Rated Frequency	50/60Hz (±5)
Rated AC Current	72A
Overload Capacity	110%, Regular Operation; 120%, 1 min;
Current Distortion	<3% (Rated Power)
Power Factor Adjustment Range	1 (Lead) ~1 (Hysteresis)
Unbalanced-load Carrying Capacity	100%, Three-phase Independent Control
Battery	Lithium/Plumbic Acid/Hydrogen Fuel Cells/PV
Maximum Conversion Efficiency	98.5%
Dimensions (W*D*H)	483*600*150mm
Application	High cell voltage, high conversion efficiency, multi-module parallel operation

Battery System Parameters

Model	BHF-X225	BHF-X209	BHF-X193
Nominal Voltage(V)	806.4	748.8	691.2
Operating Voltage Range (V)	630~919.8	585~854.1	540~788.4
Nominal Capacity(Ah)	280		
Battery Packs Specification	1P18S 57.6V 280Ah 16.128kWh		
Battery Packs Number	14	13	12
System Composition	1P252S	1P234S	1P216S
Total Energy (KWh)	225.8	209.7	193.5
Nominal Power(KW)	112.9	104.8	96.8
Max Power(KW)	150.0	139.3	128.6
Rated Charge/Discharge Current (A)	140		
Max charge/Discharge Current(A)	200/200		
Depth of Discharge	Max. DOD:100%; Recommend DOD:90%		
Operating Temperature	Charge: 0~55 °C Discharge: -20 °C ~55 °C		
Operating Humidity	5%~95%		
Operating Altitude	<4000m		
System Service Life	>15years		
Communication	CAN/RS485/Ethernet		
Cooling Type	Industrial wall air conditioning		
Ingress Protection	IP55		
Electrical Protection Level	I		
Dimensions (W*D*H)	2120*1500*1200mm		
Weight (Kg)	2600	2470	2340