



100kWH Air Cooling BESS



Features

✓ Easy installation, operation and maintenance

Highly integrated, convenient for transportation, operation and maintenance

Fully pre-assembled, no need for on-site installation of battery modules

Fully functional debugging, meets the requirements for many scenarios with simple configurations available for use

✓ Safe and Reliable

Multi-level protection for AC and DC, the system quickly disconnects during anomalies

Fire detection and protection at PACK level and cluster level, effectively managing dual detection in battery and electrical compartments for comprehensive coverage.

✓ Flexible Configuration

Supports multiple Ongrid parallel

Supports 3 units in parallel for off-grid

Compatible with diesel generation, wind power, photovoltaic systems, and uninterrupted switching

✓ Long Operating Life

Intelligent air cooling with professional airflow design

Smart cooling system prevents heat accumulation

Battery cells operate in an environmentally friendly manner, ensuring charge and discharge power

✓ User-Friendly

Intelligence Remote support for strategy adjustments, configuration, and data viewing

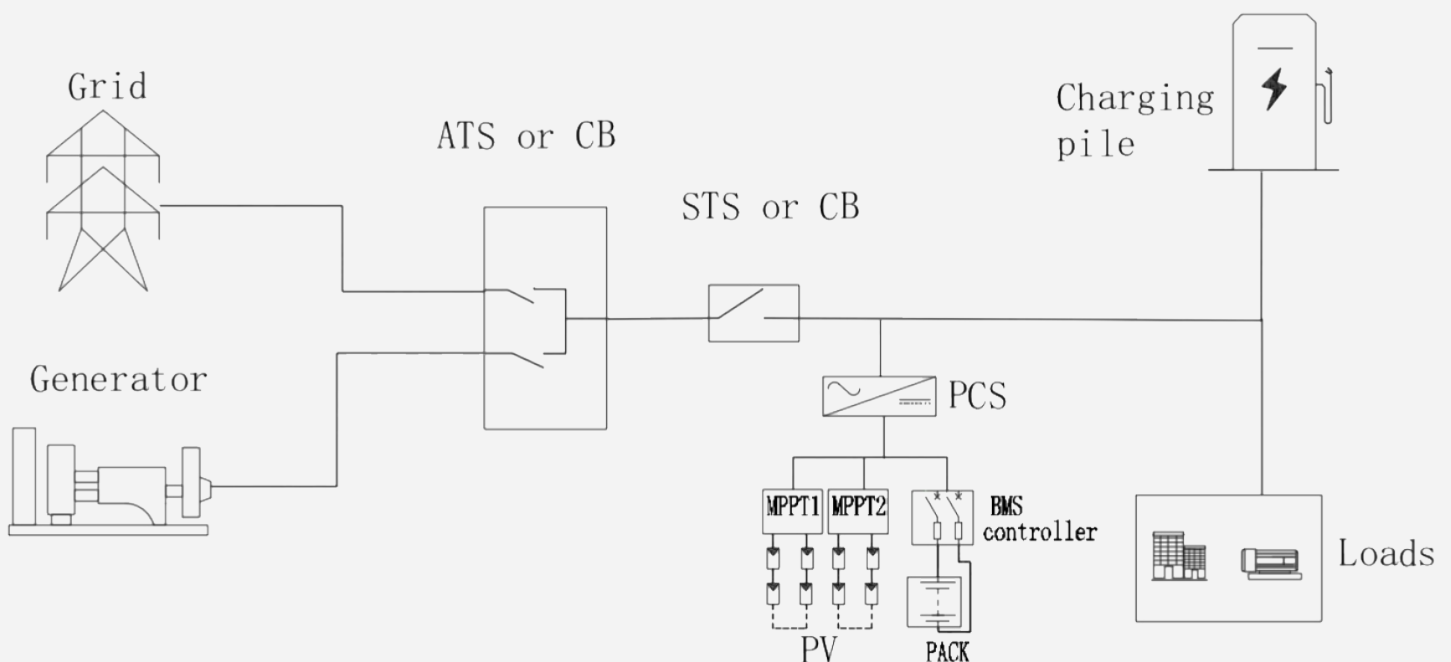
Real-time status monitoring and fault logging, Enables fault warning and location identificatio

Built-in battery performance monitoring and recording capabilities

✓ Seamless Switching

Grid and off-grid switching time is less than 20 ms, allowing for uninterrupted load switching

System chart



Technical Specification for 2 hours Backup (0.5C)

Model	30kW 100kwh(16S*7)	50kW 100kwh(16S*7)	50kW 112kwh(16S*7)	50kW 140kwh(20S*7)	50kW 160kwh(20S*8)
DC (Battery)					
Cells Type	LiFePO4 Lithium Iron Phosphate				
Cell specification	3.2V280Ah	3.2V280Ah	3.2V314Ah	3.2V314Ah	3.2V314Ah
Configuration of Battery	112S1P	112S1P	112S1P	140S1P	160S1P
Battery Capacity	100kWh	100kWh	112kWh	140kWh	160kWh
Max. Power	30KW	50KW	50KW	50KW	50KW
Max. Current	140A	140A	140A	140A	157A
Battery Rated Voltage	358.4V	358.4V	358.4V	448V	512V
Battery Voltage Range	313.6V-403.2V	313.6V-403.2V	313.6V-403.2V	392V-504V	448V-576V
AC (On / Off Grid)					
Max. Power(kVA)	33KVA	55KVA	55KVA		
Active Power(kW)	30KW	50KW	50KW		
Rated Voltage(V)	400V	400V	400V		
Rated Current(A)	43A	86A	86A		
Voltage Range	320V-460V		320V-460V		
Rated Frequency	50/60Hz		50/60Hz		
Range of Frequency	45-55/55-65Hz		45-55/55-65Hz		
THDI	<3%		<3%		
Power factor	1.0(Adjustable from 0.8 leading to 0.8 lagging)		1.0(Adjustable from 0.8 leading to 0.8 lagging)		
AC System	3 phase 4 wires		3 phase 4 wires		
Overload capability	110%		110%		
Solar Side (PV)					
Optional					
Max. Power	100KW(30KW*2)				
High Voltage side Voltage	560V-1000V				
High Voltage side Current	80A				
Low Voltage side Voltage	500V-900V				
Low Voltage side Current	100A				
Uninterrupted Load (STS)					
Optional					
STS Power	50KW				
STS Voltage	400V 50HZ/60HZ				
Overload Power	110%				
Shift Time	<20mS				
System operation strategy					
Functional	Anti Backflow and Black Start				
Operation Mode Selections	Power peak shaving and valley filling, electricity price peak valley arbitrage, photovoltaic priority for electricity cost savings, wind power generation priority for electricity cost savings, off grid power supply for remote areas				
Scenarios	Photovoltaic and diesel storage project, Wind power and diesel storage project, Wind and photovoltaic diesel storage project, Charging Station + Energy storage project, On-grid electricity selling project				
Specification					
Cabinet Size (W * D * H)	1150*1246*2050mm				
Weight	≤1.65T			≤1.90T	
Max. cycle efficiency	≥90%				
Protection	IP55				
Auxiliary Power Supply	Self-powered, Externally powered				
Corrosion resistance rating	C3/C5				
Operating Humidity Range	0%-100%(Non-condensing)				
Operating Temperature Range	-30°C-50°C(>45°Cderating)				
Max. Operation Altitude	2000m				
Battery cabinet cooling method	Intelligent Air Cooling				
Fire safety configuration	Smoke detector, Heat detector, Gas-based fire extinguishing system, Pressure relief valve, Pack-level fire protection, Cluster-level fire protection, Water-based fire protection, Automatic pressure relief				
Communication	Ethernet, 485, CAN				
Communication Protocol	Modbus TCP				
Note: Some spare parts are available. For details, please consult with our sales for further communication.					