YUYANG NEW ENERGY

215KWH
All-in-one
Liquid 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

Support 0.5C and 1C charging/discharging

Support On/Off grid parallel

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

Long Operating Life, Support Full Power charge and discharge

Intelligent liquid cooling ensure higher efficiency

Intelligent liquid cooling prolongs battery life

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

Smart cooling system prevents heat accumulation

User-Friendly

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

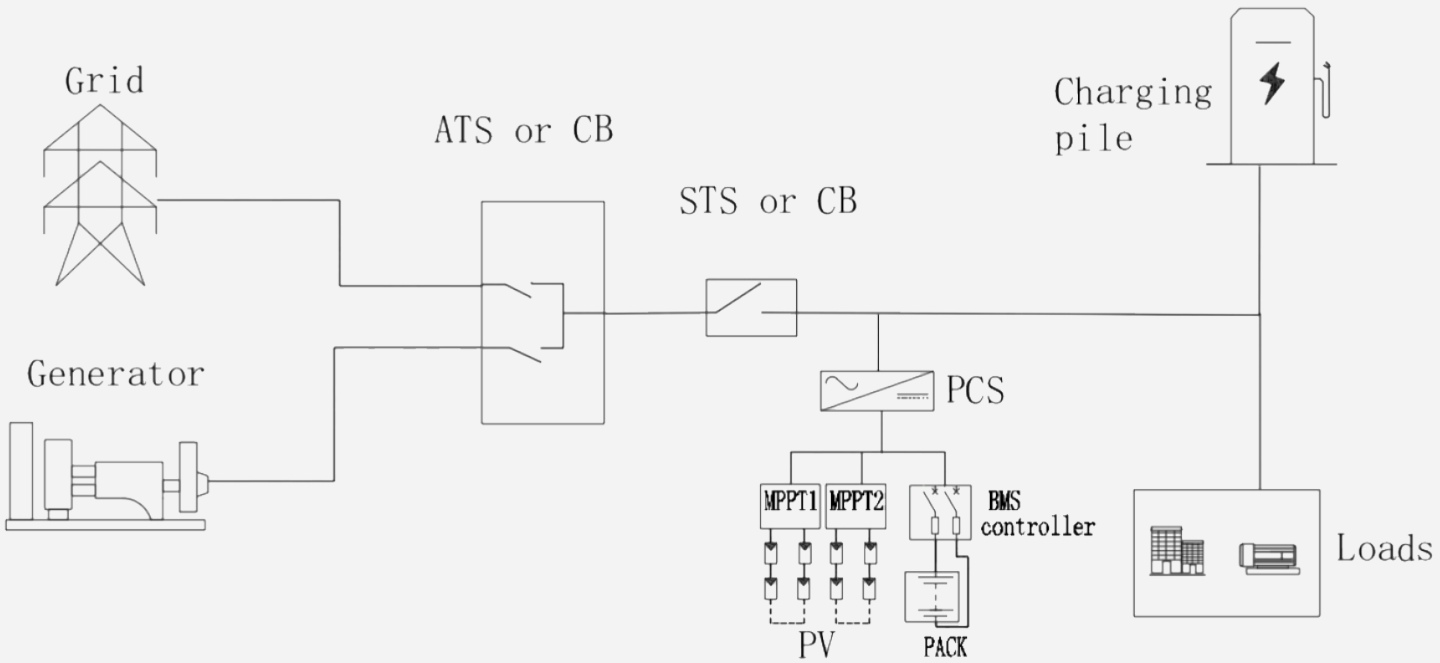
Real-time status monitoring and fault logging, Enables fault warning and location identification

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	100kW 215kwh	100kW 232kwh	125kW 241kwh	125kW 252kwh	125kW 261kwh
DC（Battery）					
Cells Type	LiFePO4 Lithium Iron Phosphate				
Cell specfication	3.2V280Ah	3.2V280Ah	3.2V314Ah	3.2V304Ah	3.2V314Ah
Configuration of Battery	240S1P	260S1P	240S1P	260S1P	260S1P
Battery Capacity	215kWh	232kWh	241kWh	252kWh	261kWh
Max. Power	100KW	100KW	100KW	100KW	100KW
Max. Current	140A	140A	157A	152A	157A
Battery Rated Voltage	768V	832V	768V	832V	832V
Battery Voltage Range	672V-864V	728V-936V	672V-864V	728V-936V	728V-936V
AC（On / Off Grid）					
Max. Power(kVA)	110KVA		137KVA		
Active Power(kW)	100KW		125KW		
Rated Voltage(V)	400V		400V		
Rated Current(A)	144A		180A		
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(50KW*2)				
High Volage side Voltage	560V-1000V				
High Voltage side Current	160A				
Low Voltage side Voltage	500V-900V				
Low Voltage side Voltage	200A				
Uninterrupted Load（STS）	**Optional**				
STS Power	200KW				
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				
Scienerios	Photovaltaic 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				
Specificaiton					
Cabinet Size (W * D * H)	1585/1366/2055mm				
Weight	⩽2.7T				
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)				
	-30℃-50℃(>45℃derating)				
Max. Operation Altitude	2000m				
	Intelligency Liquid 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, Automoatic pressure relief				
Communication	Ethernet、485、CAN				
Communication Protocal	ModbusTCP				
Note: Some spare parts are available. For details, please consult with our sales for further communication.					

Technical Specification for 1 hours Backup (1C)

Model	200kW 215kwh	200kW 232kwh	200kW 241kwh	250kW 252kwh	250kW 261kwh
DC（Battery）					
Cells Type	LiFePO4 Lithium Iron Phosphate				
Cell specfication	3.2V280Ah	3.2V280Ah	3.2V314Ah	3.2V304Ah	3.2V314Ah
Configuration of Battery	240S1P	260S1P	240S1P	260S1P	260S1P
Battery Capacity	215kWh	232kWh	241kWh	252kWh	261kWh
Max. Power	200KW	200KW	200KW	250KW	250KW
Max. Current	280A	280A	314A	304A	280A
Battery Rated Voltage	768V	832V	768V	832V	832V
Battery Voltage Range	672V-864V	728V-936V	672V-864V	728V-936V	728V-936V
AC（On / Off Grid）					
Max. Power(kVA)	110KVA		137KVA		
Active Power(kW)	100KW		125KW		
Rated Voltage(V)	400V		400V		
Rated Current(A)	288A		360A		
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(50KW*2)				
High Volage side Voltage	560V-1000V				
High Voltage side Current	160A				
Low Voltage side Voltage	500V-900V				
Low Voltage side Voltage	200A				
Uninterrupted Load（STS）	**Optional**				
STS Power	200KW				
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				
Scienerios	Photovaltaic 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				
Specificaiton					
Cabinet Size (W * D * H)	1585/1366/2055mm				
Weight	≤2.7T				
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)				
	-30°C-50°C(>45°Cderating)				
Max. Operation Altitude	2000m				
	Intelligency Liquid 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, Automoatic pressure relief				
Communication	Ethernet、485、CAN				
Communication Protocal	Modbus TCP				
Note: Some spare parts are available. For details, please consult with our sales for further communication.					