# 215KWH 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

### User-Friendly

IIntelligence 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

## 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

### 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 Support 0.5C and 1C charging/discharging Support On/Off grid parallel

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

# Technical Specification for 2 hours Backup (0.5C)

Model	100KW-197KWH	100KW-215KWH	100KW-232KWH	125KW-252KWH	125KW-261KWH			
DC Battery								
Cells Type	LiFePO4 Lithium Iron Phosphate							
Cell specfication	3.2V28OAh	3.2V314Ah	3.2V314Ah	3.2V304Ah	3.2V314Ah			
Configuration of Battery	220S1P	240S1P	260S1P	260S1P	260S1P			
Battery Capacity	197kWh	215kWh	232kWh	252kWh	261kWh			
Max. Power	100KW	100KW	100KW	100KW	100KW			
Max. Current	140A	140A	157A	152A	157A			
Battery Rated Voltage	704V	768V	768V	832V	832V			
Battery Voltage Range	616V-792V	672V-864V	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								
Rated Frequency	50/60Hz							
Range of Frequency	45-55/55-65Hz							
THDI	<3%							
Power factor	1.0(Adjustable from 0.8 leading to 0.8 lagging)							
AC System	3 phase 4 wires							
Overload capability	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 Poer	110%							
Shift Time		<20mS						
System operation stratege								
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 p	oroject, Charging Static	on + Energy storage pro	oject, On-grid electric	ity selling project			
Specificaiton			4000/4400/0055					
Cabinet Size (W*D*H)	1696/1408/2055mm							
Weight	≤2.7 T							
Max. cycle efficiency	≥90% IDEE							
Protection	IP55							
Auxiliary Power Supply	Self-powered, Externally powered							
Corrosion resistance rating	C3/C5							
Operating Humidity Range	0%-100%(Non-condensing)							
Operating Temperature	-30°C-50°C(>45°C derating)							
Max. Operation Altitude	2000m Intelligent Air Cooling							
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, Automoatic pressure relief						
Communication Protocol		Ethernet、485、CAN  ModbustCB						
Communication Protocal	ModbusTCP							

# Technical Specification for 1 hours Backup (1C)

MODEL	30KW-100KWH	50KW-100KWH	50KW-112KWH	50KW-125KWH	50KW-140KWH		
	(16S*7)	(16S*7)	(16S*7)	(16S*7)	(20S*7)		
DC(Battery)							
Cells Type		LiFeP	O4 Lithium Iron Phos	phate			
Cell specfication	3.2V28OAh	3.2V28OAh	3.2V28OAh	3.2V28OAh	3.2V306Ah		
Configuration of Battery	112S1P	112S1P	112S1P	140S1P	140S1P		
Battery Capacity	100kWh	100kWh	112kWh	125kWh	137kWh		
Max. Power	30KW	50KW	50KW	50KW	50KW		
Max. Current	140A	140A	140A	140A	152Ah		
Battery Rated Voltage	358.4V	358.4V	358.4V	448V	448V		
Battery Voltage Range	313.6V-403.2V	313.6V-403.2V	313.6V-403.2V	392V-504V	392V-504V		
AC(On / Off Grid)			Optional				
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				
Range of Frequency	50/60Hz		45-55/55-65Hz				
THDI	45-55/55-65Hz		45-55/55-65HZ <3%				
Power factor	<3% 1.0(Adjustable from 0.8 leading to 0.8 leading)		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% Optional						
Solar Side(PV)	Optional  100KW(20KW*2)						
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 Voltage	100A						
Uninterrupted Load(STS)			Optional				
STS Power	50KW						
STS Voltage	400V 50HZ/60HZ						
Overload Poer			110%				
Shift Time			<20mS				
System operation stratege							
Functional		Anti	Backflow and Black S	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 photovoltai						
	diesel storage project, Charging Station + Energy storage project, On-grid electricity selling project						
Specificaiton							
Cabinet Size(W*D*H)	1696/1408/2055mm						
Weight	≤2.7 T						
Max. cycle efficiency	≥90%						
Protection	IP55						
Auxiliary Power Supply	Self-powered, Externally powered						
Corrosion resistance rating							
Operating Humidity Range							
Operating Temperature	-30°C-50°C(>45°C derating)						
Max. Operation Altitude	2000m						
Cooling method	Intelligency 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, Automoatic pressure relief						
Communication							
Communication Protocal	Ethernet、485、CAN  ModbustCB						
Communication Protocal	ModbusTCP						

Note: Some spare parts are available. For details, please consult with our sales for further communication.