



51.2V 314Ah Each Pack 112kWh-241kWh (HV)

LiFePO4 Energy Storage Battery (Application scenarios within 0.5C)



Quick Customization
of Electricity



Patented Modular
Plug Design



Easy Installation
Flexible Expansion



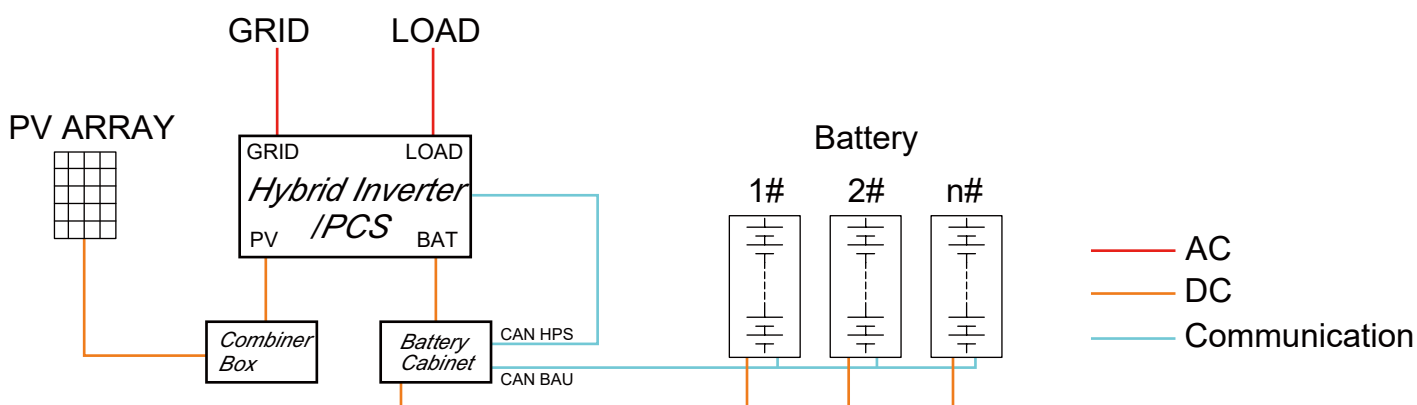
Emergency-Backup
and Off-Grid Functionality



Long cycle life
6000 cycles



Safety first
Smart BMS system



Technical Parameters (Battery Cluster)

	112.5376KWh	128.6144KWh	144.6912KWh	160.768KWh	176.8448KWh	192.9216KWh	208.9984KWh	225.0752KWh	241.152KWh
Battery module specification									
Configuration	1P16S								
Rated capacity	314Ah								
Rated energy	16.0768kWh								
Rated voltage	51.2V								
Voltage range	44.8-56.8V								
Rated charge/discharge	0.5C								
AC internal resistance	≤5mΩ								
Dimension (W/D/H)	376*885*238.5 (±5) mm								
Weight	112kg								

Battery rack specification

Configuration	7 modules +1 BPU	8 modules +1 BPU	9 modules +1 BPU	10 modules +1 BPU	11 modules +1 BPU	12 modules +1 BPU	13 modules +1 BPU	14 modules +1 BPU	15 modules +1 BPU
Rated capacity	314Ah								
Rated energy	112.5376kWh	128.6144kWh	144.6912kWh	160.768kWh	176.8448kWh	192.9216kWh	208.9984kWh	225.0752kWh	241.152kWh
Rated voltage	358.4V	409.6V	460.8V	512V	563.2V	614.4V	665.6V	716.8V	768V
Voltage range	313.6-397.6V	358.4-454.4V	403.2-511.2V	448-568V	492.8-624.8V	537.6-681.6V	582.4-738.4V	627.2-795.2V	672-852V
Rated charge/discharge	0.5C								
Display	7"Touch screen								
BMS	Included								
Communication	CAN								
Monitoring	RS485								
Dimension(W/D/H)	900*950*1100mm	900*950*1350mm	900*950*1350mm	900*950*1600mm	900*950*1600mm	900*950*1850mm	900*950*1850mm	900*950*2100mm	900*950*2100mm
Weight	985kg	1110kg	1235kg	1350kg	1475kg	1600kg	1725kg	1850kg	1975kg
Protection degree	IP20								

BMS Parameters on LCD

Cell voltage	Yes
Cell hight voltage	Yes
Cell low voltage	Yes
Cell temperature	Yes
Charge and dicharge current	Yes
Total battery voltage	Yes
Battery SOC	Yes
Fault warning	Yes

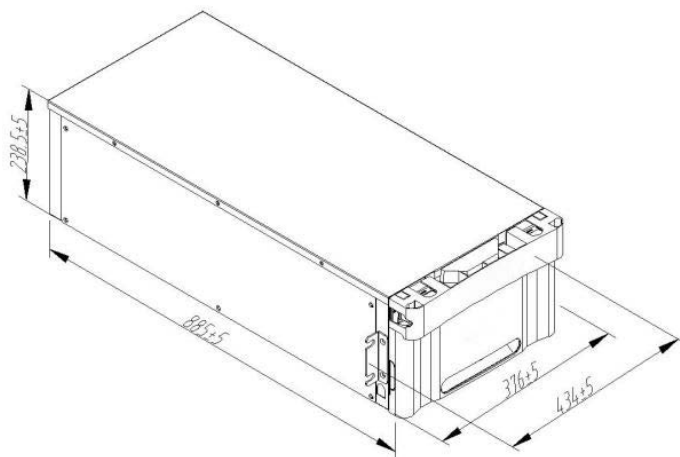
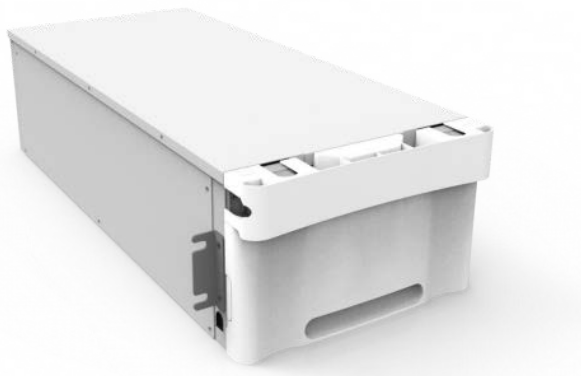
Protection

Short circuit protection	Yes
Over current protection	Yes
Over charge protection	Yes
Over discharge protection	Yes
Cell over voltage protection	Yes
Cell under voltage protection	Yes
Over temperature protection	Yes

Compatible Inverters

“Adapt to mainstream brands, customizable communication protocols, and factory compatible.”

High Volage Lithium-Ion Phosphate Battery storage system51.2V314AH

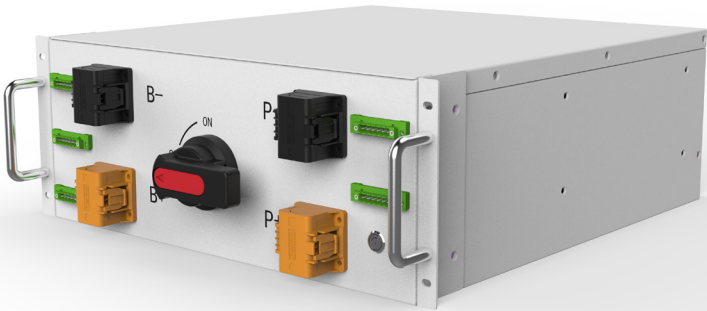


Module	51.2V 314AH
Basic Parameters	
Capacity(kWh)	16.0768
Nominal Voltage(Vdc)	51.2
Nominal Capacity(AH)	314
Voltage Range(Vdc)	44.8~56.8
Depth of Discharge	90%
Dimension(W* D*H,mm)	885mm*434mm*238.2mm(+5)
Design Life	15+ years (25°C)
Cycle Life	>8000 (25°C)
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	112kg+3kg
Operation Temperature	0~50°C
Storage Temperature	-20~60°C
Product Certificate	UN38.3

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Main Controller : 1500V 200A



Module	1500V 200A
Basic Parameters	
Related Product	1500V 200A
AC Supply	/
System Operation Voltage (Vdc)	0~1500
Operation Current (Max.)(A)	200
Self-consumption Power(W)	8
Dimension(W* D*H,mm)	85mm*434mm*238.2mm (±5)
Communication	MODBUS RTU/CAN
Protection Class	IP20
Weight(kg)	20
Operation Life	15+
Operation Temperature	-20~65
Storage Temperature	-40~80

BMS Function

Protection and Alarm

Charge/Discharge End
Charge Over Voltage
Charge/Discharge Over Current
High/Low Temperature
Operation Record
Administrator Monitor: Current,
Voltage, Temperature, SOC&SOH.

Management and Monitor

Cells Balance
Intelligent Charge Model
Capacity Retention Calculate
Isolation and Protection
Alarm and Protection.

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Battery Cabinet

The battery cabinet is the dc side bus control unit of the energy storage battery system, which is connected with the high voltage box and storage.

intermediate unit capable of converter; The power pool system (stack) is installed in the bus cabinet, Switch off/circuit breaker (optional). three-level BMS (ESMU). and UPS power supply. Confluence ark.

The electrical characteristics, heat dissipation performance and safety performance of each component have been fully considered in the design.

And operation and maintenance, reasonable space layout, with compact structure, flexible configuration, security.

Full reliability and other characteristics. Three stage BMS module (ESMU) in the bus cabinet, with CAN,

Rs-485, RJ45 Ethernet communication interface, can be realized with high voltage box, PCS/UPS or

The communication function between EMS realizes the data communication and control of the energy storage battery management system and protection.



NO.	Item	Para Range	Function	Remark
1	DC Breaker	630/1000/1250A	Main loop protection	Customization
2	BMS	ESMU-10 II	Display communication control	
3	Switching power supply	35W/75W 24V	Power Supply	
4	Miniature circuit breaker	S202-C64/20/10	Switch	
5	Emergency stop switch	LA38-22ZS	scram protection	
6	Repeaters	CR-MX024DC2L	Signal control and conversion	
7	LED instruction	ED16-22DSR(G/Y/R)	status indicator	
8	Surge protective devices(spd)	Ex9UEP 20 3	Lightning protection bus	
9	Fuse	DC1500/1000V 300A	protection	Customization
10	Terminal strip		Communication power signal conversion	

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