



# 51.2V 280Ah Each Pack 100kWh-215kWh (HV)

LiFePO4 Energy Storage Battery (Application scenarios within 0.5C)



Quick Customization  
of Electricity



Patented Modular  
Plug Design



Easy Installation  
Flexible Expansion



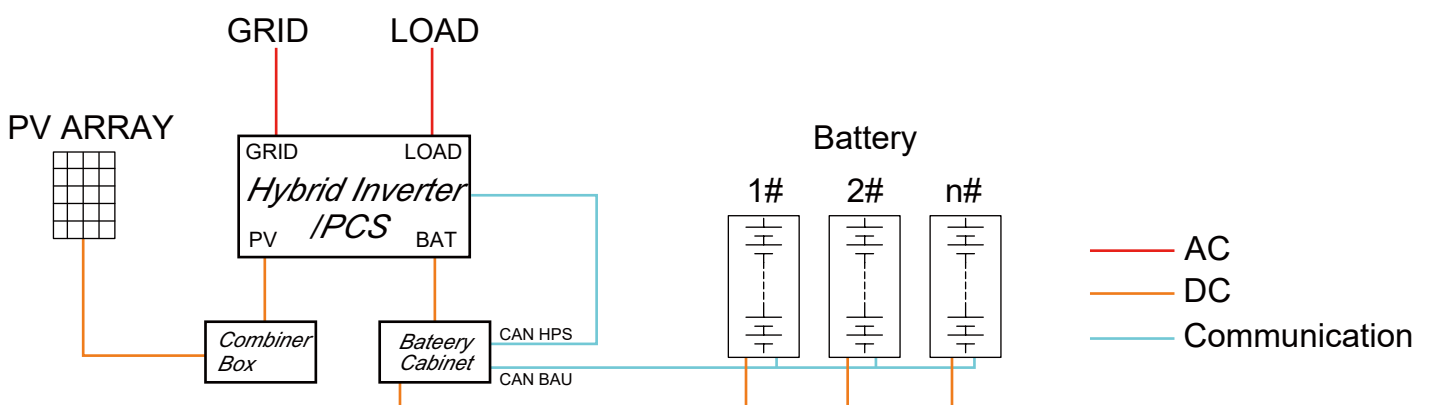
Emergency-Backup  
and Off-Grid Functionality



Long cycle life  
6000 cycles



Safety first  
Smart BMS system



Technical Parameters (Battery Cluster)

	100.352KWh	114.688KWh	129.024KWh	143.36KWh	157.696KWh	172.032KWh	186.368KWh	200.70KWh	215.01KWh
Battery module specification									
Configuration	1P16S								
Rated capacity	280Ah								
Rated energy	14.336kWh								
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	280Ah								
Rated energy	100.352kWh	114.688kWh	129.024kWh	143.36kWh	157.696kWh	172.032kWh	186.368kWh	200.70kWh	215.04kWh
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)	908*901*1615mm						908*901*2155mm		
Weight	875kg	1075kg	1200kg	1325kg	1450kg	1575kg	1700kg	1825kg	1950kg
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

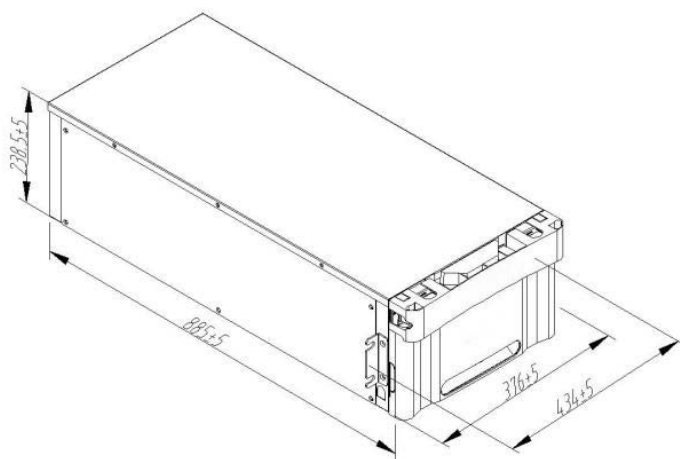
Protection

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 system51.2V280A

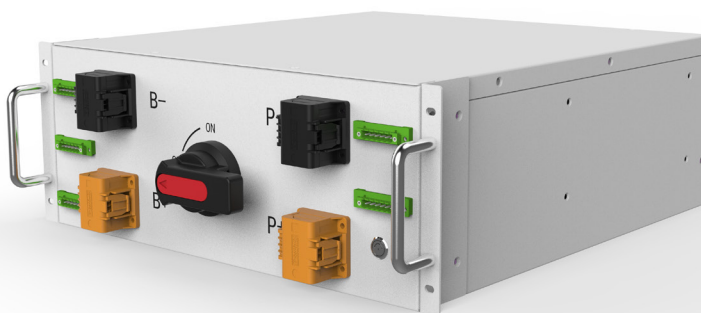


Module	51.2V 280AH
Basic Parameters	
Capacity(kWh)	14.336
Nominal Voltage(Vdc)	51.2
Nominal Capacity(AH)	280
Voltage Range(Vdc)	44.8~56.8
Depth of Discharge	90%
Dimension(W* D*H,mm)	885mm*434mm*238.2mm(+5)
Design Life	15+ years (25°C)
Cycle Life	>6000 (25°C)
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	108kg+3kg
Operation Temperature	0~50°C
Storage Temperature	-20~60°C
Product Certificate	UN38.3

## Compatible Inverters

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

# Main Controller : 1500V 200A



Module	1500V 200AH
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.

## Compatible Inverters

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

## 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	

## Compatible Inverters

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