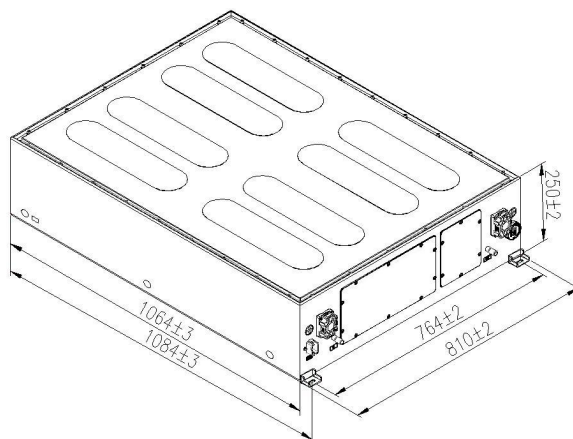
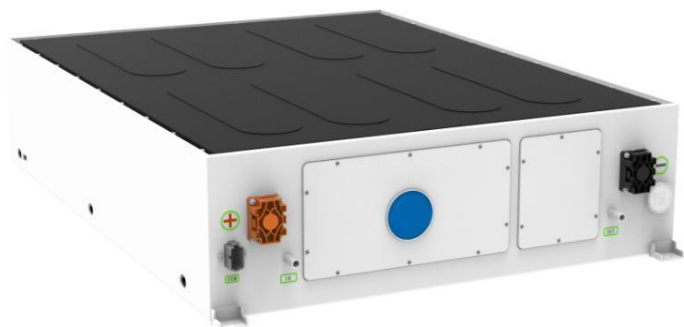


## High Voltage Lithium-Ion Phosphate Battery storage system 143.6V280Ah(Liquid cooling)



### Module

### 153.6V280AH(0.5C)

#### Basic Parameters

Capacity(kWh) 43.008

Nominal Voltage(Vdc) 143.6

Nominal Capacity(AH) 280

Voltage Range(Vdc) 134.4~170.4

Depth of Discharge 90%

Dimension(W\* D\* H,mm) 810\*1084\*250

Design Life 15+ years (25°C)

Cycle Life > 6000 (25°C)

Communication CANBUS/Modbus RTU/TCP/IP

Protection Class IP20

Weight(kg) 300kg±3kg

Operation Temperature 0~50°C

Storage Temperature -20~60°C

Product Certificate UN38.3

## Main Controller : 1500V200A



### Module

### 1500V200A

#### Basic Parameters

Related Product

1500V200A

AC Supply

---

System Operation Voltage (Vdc)

0~1500

Operation Current (Max.) (A)

200

Self-consumption Power(W)

8

Dimension (W\* D\* H, mm)

885mm\*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

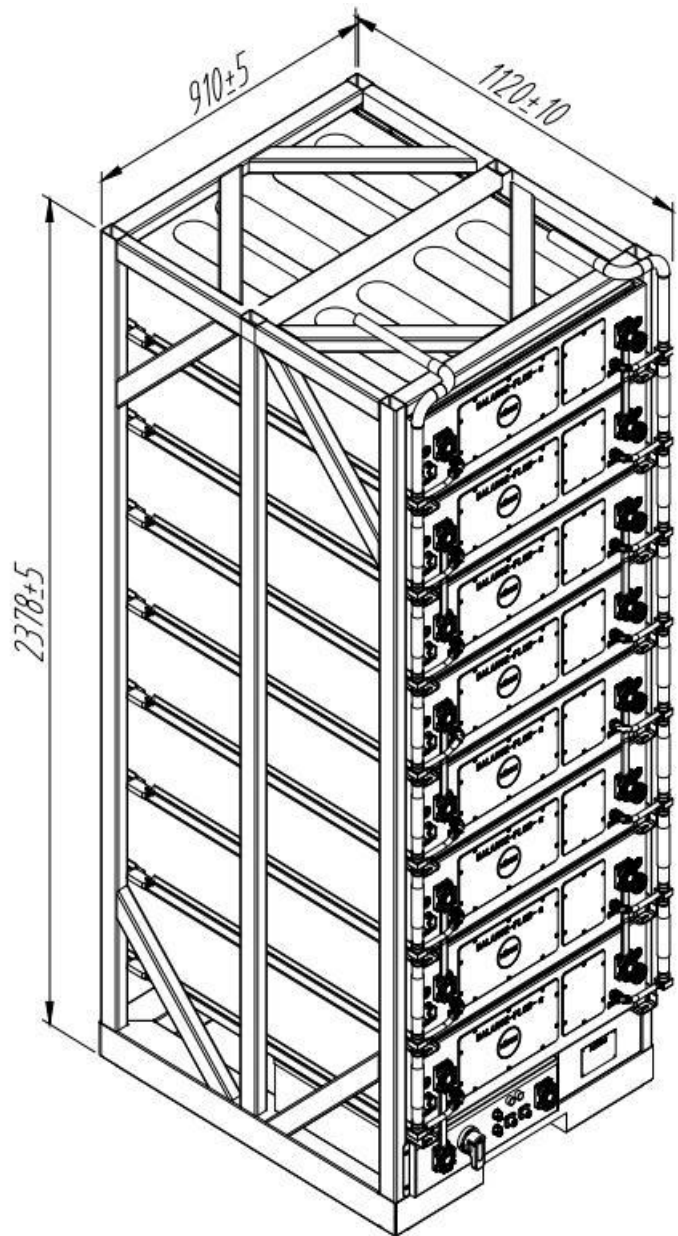
Intelligent Charge Model

Capacity Retention Calculate

Isolation and Protection

Alarm and Protection

## Standard Battery cluster 1331.2V 280AH



Standard cluster **1228.8V280AH**

### Basic Parameters

Battery System Capacity (kWh)	344.064
Battery System Voltage (Vdc)	1228.8
Battery System Capacity (AH)	280
Battery Module	153.6V280Ah
Battery Capacity(kWh)	43.008
Battery Modules Qty.	8
Battery System Charge Upper-Voltage	1363.2V
Standard Operation Current( A )	140
Normal Operation Current( A )	140
Max. Operation Current( A )	180
Battery System Discharge lower-Voltage	1075.2
Round-trip efficiency ( @0.5C-rate )	95%
Depth of Discharge	90%
Dimension(W* D* H, mm)	910*1120*2378
Communication	CANBUS/Modbus RTU/TCP/IP
Weight (kg)	~2600
Operation Life	15+Years
Operation Temperature	10~40°C
Storage Temperature	-20~60°C
Humidity	5 – 95%(without condensing)
Altitude (m)	<4000
Product Certificate	IEC62619/CE/UN38.3

## Control and confluence cabinet

The bus 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	Quantity	Function	Remark
1	DC Breaker	630/1500/1250A	1	Main loop protection	
2	BMS	ESMU-10 II	1	Display communication contro	
3	Switching power supply	35W/75W 24V	1	Power Supply	
4	Miniature circuit breaker	S202-C64/20/10	/	Switch	
5	Emergency stop switch	LA38-22ZS	1	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 3P	1	Lightning protection bus	
9	Fuse	DC1500/1000V 300A	1	protection	
10	Terminal strip		/	Communication power signal conversion	