High Volage Lithium-Ion Phosphate Battery storage system51.2V314Ah

Module	**51.2V314AH**(0.5C)
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℃)
Cycle Life	> 6000 (25℃)
Communication	CANBUS/Modbus RTU/TCP/IP
Protection Class	IP20
Weight(kg)	110kg±3kg
Operation Temperature	0~50℃
Storage Temperature	-20~60℃
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 768V 314AH

Module	768V314AH
Basic Parameters	
Battery System Capacity (kWh)	241.152
Battery System Voltage (Vdc)	768
Battery System Capacity (AH)	314
Battery Module	51.2V314Ah
Battery Capacity(kWh)	14.336
Battery Modules Qty. (Optional)	15
Battery System Charge Upper-Voltage	852
Standard Operation Current(A)	157
Normal Operation Current(A)	157
Max. Operation Current(A)	180
Battery System Discharge lower-Voltage	672
Round-trip efficiency（@1C-rate）	95%
Depth of Discharge	90%
Dimension(W* D* H, mm)	945mm（W）*1334mm（D）*2200mm（H）±10
Communication	CANBUS/Modbus RTU/TCP/IP
Weight (kg)	~2000kg
Operation Life	15+Years
Operation Temperature	10~40℃
Storage Temperature	-20~60℃
Humidity	5 – 95%(without condensing)
Altitude (m)	<4000
Product Certificate	IEC62619/CE/UN38.3

Control and combiner 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	630/1250/1600A	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	

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