Rack-Mounted 51.2V 200Ah Datasheet

Technical Parameters

Model	51.2V200Ah	51.2V100Ah
Electrical parameters		
Nominal capacity	200Ah	100Ah
Nominal voltage	51.2V	51.2V
Total energy	10240W.h	5120W.h
Depth of discharge (90%DOD)	9216W.h	4608W.h
Charging voltage	57.6V	57.6V
End voltage	46.4V	46.4V
Maximum current	120A	80A
Maximum power	6144W	4096W
General parameters		
Battery type	LiFePO4	LiFePO4
Working humidity	≤85%rh	≤85%rh
Store humidity	≤85%rh	≤85%rh
Working altitude	≤2000m	≤2000m
Maximum number of parallel	15pcs	15pcs
Protection level	IP54	IP54
Net weight	80Kg	50Kg
Dimension	605X383X240（mm）	567X355x150（mm）
Certificate	UN38.3, CE, ROHS, IEC62619	UN38.3, CE, ROHS
Circle life	≥6000 times	≥6000 times
Communication port	CAN,RS485, RS232	
Discharging working temperature	-20℃ ~ 60℃	
Charging working temperature	0℃ ~ 60℃	
Storage temperature	12 months, ≤25℃	
	6 months, ≤35℃	
	3 months, ≤45℃	
Warranty	5 years	

Product Overview

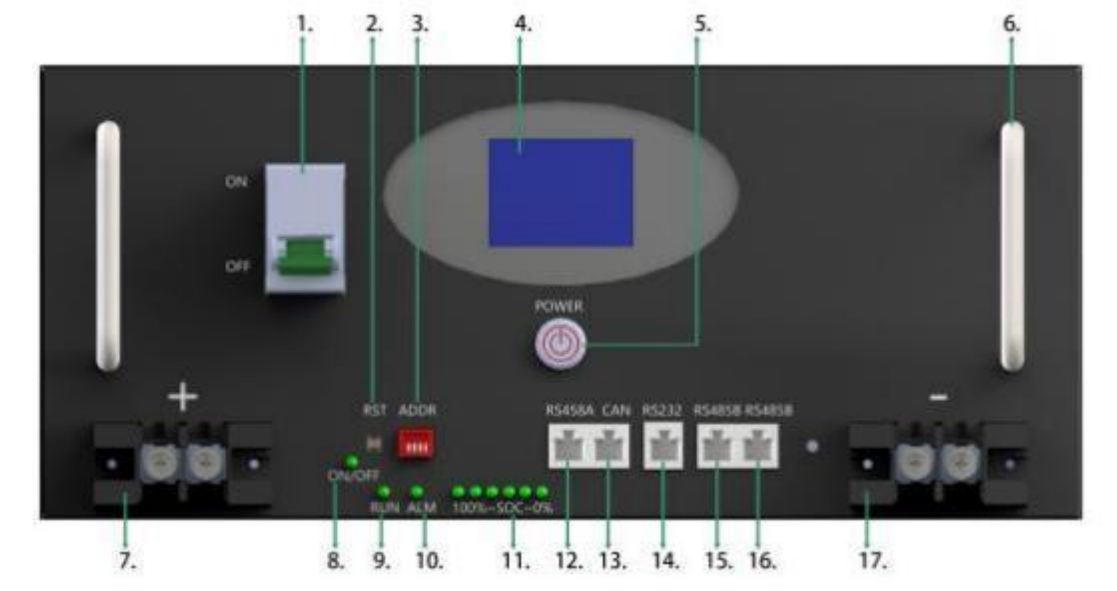
4.1 Brief Introduction

51.2V100Ah/ 51.2V200Ah is a lithium battery energy storage system with an operating voltage range of between 46.4~57.6v, it is used for household energy storage applications, in cooperation with low voltage inverters to achieve home energy storage purpose.

51.2V100Ah/ 51.2V200Ah has a built-in BMS (Battery Management System) which can manage and monitor cells information, including voltage, current and the temperature. In addition, the BMS can balances battery charging to extend lifespan. BMS has the protections including over- discharge, overcharge, over-current, high / low temperature, etc.

The system can automatically manage the charging status, discharge state, balance state. Multiple batteries can be connected in parallel to expand storage capacity to meet larger capacity and continuous power support time, **51.2V100Ah/ 51.2V200Ah** support up to 15 parallel operations.

4.2 Hardware and Instructions

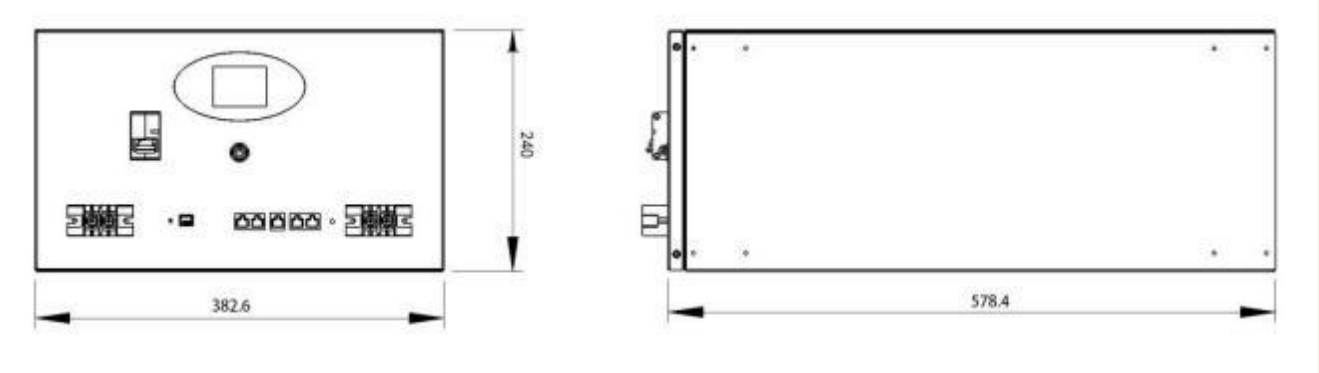


NO.	Items	NO.	Items
1.	Protective cut-off switch	2.	BMS force reset switch
3.	ADDR dial address	4.	LED display
5.	Power Switch	6.	U-type pull
7.	Battery positive pole	8.	Power light
9.	Normal operating light	10.	Alarm light
11.	Power indicator light	12.	RS485A port-inverter communication
13.	CAN port-inverter communication	14.	RS232 port-upper computer communication
15.	RS485B port-battery parallel communication	16.	RS485B port-battery parallel communication
17.	Battery negative pole		

or discharge current/discharge cut-off voltage of the inverter based on the battery voltage and battery temperature through CAN/RS485 communication.

4.2.4 RS232 Upper Computer Port

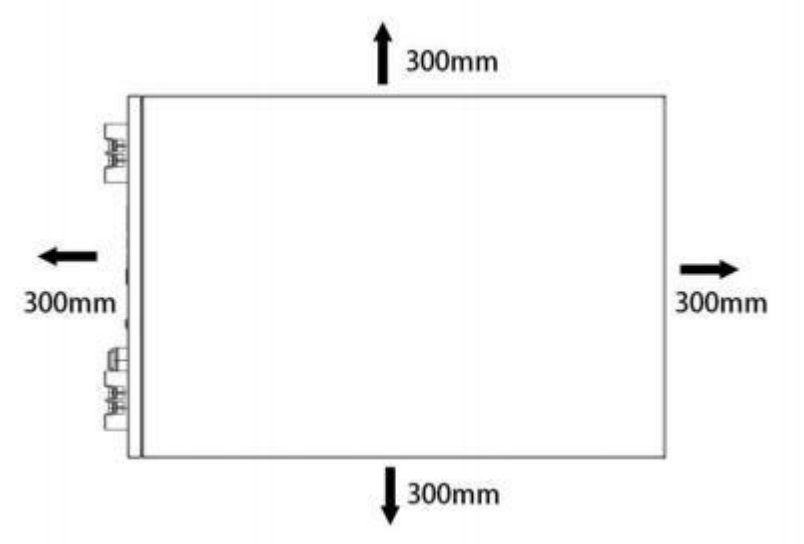
51.2V200Ah					
NO.	Name	Model	Unit	Qty	Mark
1.	Battery	51.2V100Ah	PCS	1	Based on order model
1.	Battery	51.2V200Ah	PCS	1	
2.	Side ear sheet metal	Steel	SET	2	
3.	Screw	M4	PCS	8	For Side ear sheet metal fixing
4.	RS232-USB cable		SET	1	For upper computer connection
5.	Aviation plug	125A, orange +, black -	SET	1	
6.	Extra soft silicone wire	4AWG, black, 1.5M	PCS	1	For inverter connection
		4AWG, red, 1.5M	PCS	1	
7.	Network adapter	1 to 2	PCS	1	For battery parallel
8.	OT terminal	25-10	PCS	2	Back-up
9.	Heat shrinkable tube	Ø12 (40mm)	PCS	2	Back-up
10.	Communication cable	1+1 crystal head/ 1.5m	PCS	1	For inverter communication
		Network cable 1m	PCS	1	Back-up
		1+1 crystal head/ 0.2m	PCS	1	For battery parallel
11.	Crystal head	8P/ gilding 3U	PCS	2	Back-up
12.	Assemble stacked sheet	Steel	PCS	4	Optional
13.	Isolation column	M4*32	PCS	4	Optional
14.	Acrylic sheet		PCS	1	Optional
15.	Built-in WIFI module		PCS	1	Optional
16.	User manual	51.2V100Ah/ 51.2V200Ah manual	PCS	1	



51.2V200Ah

5.4.2 Installation Distance

To ensure ventilation, dry heat dissipation, keep 300mm open around the battery. The spacing between battery stacks should be at least 20mm.



5.4.3 Fix the Battery

1. Single battery installation, ensure the appropriate installation interval for .
2. Multiple batteries parallel - assembly stack sheet metal installation.