

Rack-mounted energy storage System

2.5kwh-900kwh energy storage system

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Rack-mounted energy storage system can be connected in parallel according to customer needs. The capacity of a single battery pack is divided into 2.5kwh, 5kwh, 10kwh, customers can choose according to their own needs

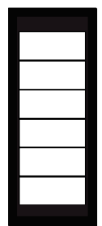
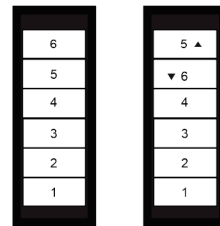
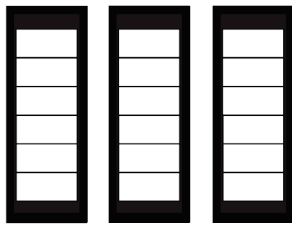
If the customer needs the system to output 51.2V, the battery packages can be connected in parallel in one battery cabinet; customer also add battery cabinets by parallel connection to expand the total capacity of whole system.

Battery Package Parallel Connection

The rack-mounted battery cabinet is composed of 1-6 battery packs connected in parallel. The voltage is stable at 51.2V. Depending on the capacity of a single battery pack, the capacity of a single battery cabinet ranges from 2.5kwh to 15kwh, 5kwh to 30kwh, and 10kwh to 60kwh. A single battery cabinet can support 1-3 phase inverters.

Battery Cabinet Parallel Connection

A rack-mounted parallel energy storage system formed by connecting battery packs in parallel. In addition, 1 to 15 battery cabinets can be directly connected in parallel, and the total capacity can achieve 2.5kwh to 225kwh, 5kwh to 450kwh, 10kwh to 900kwh. The rack-mounted parallel system works with the battery combiner box, which can support 1-3 phase inverters



Battery Cabinet

Multiple battery package connected in parallel

15 x Battery Cabinet

Can support up to 15 battery cabinets in parallel connection
Voltage is stable at 51.2V

Change Anytime

The capacity of the battery cabinets can be freely combined according to the actual situation

51.2V Output

51.2V output matches more 1-3 phase high power inverter

5Kwh Parallel

Battery Package	Battery Package (5kwh, 51.2V,65Kg)					
Number of Package	1	2	3	4	5	6
Usable Capacity	5Kwh	10Kwh	15Kwh	20Kwh	25Kwh	30Kwh
Cont. Output Current	104A	104A	104A	104A	104A	104A
Peak Output Current	180A,1s	180A,1s	180A,1s	180A,1s	180A,1s	180A,1s
Nominal Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Operating Voltage	40-58.4V	40-58.4V	40-58.4V	40-58.4V	40-58.4V	40-58.4V
Dimensions (H/W/D)	490* 435*650mm	680* 435*650mm	870* 435*650mm	1060* 435*650mm	1250* 435*650mm	1440* 435*650mm

10Kwh Parallel

Battery Package	Battery Package (10kwh, 51.2V,135Kg)					
Number of Package	1	2	3	4	5	6
Usable Capacity	10Kwh	20Kwh	30Kwh	40Kwh	50Kwh	60Kwh
Cont. Output Current	104A	104A	104A	104A	104A	104A
Peak Output Current	180A,1s	180A,1s	180A,1s	180A,1s	180A,1s	180A,1s
Nominal Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Operating Voltage	40-58.4V	40-58.4V	40-58.4V	40-58.4V	40-58.4V	40-58.4V
Dimensions (H/W/D)	565* 435*700mm	820* 435*700mm	1095* 435*700mm	1360* 435*700mm	1625* 435*700mm	1890* 435*700mm

Operating Temperature	-10°C~50°C
Battery Type	Lithium iron phosphate Battery (LiFePO4)
Communication	RS485 + CAN
Enclosure Protection Rate	IP55
Round-trip Efficiency	≥ 95%
Applications	OFF grid (Backup) / ON Grid + OFF Grid (Backup)

1: Test conditions: 25 °C, 100 % depth of discharge (DOD), 1C charge& 1.5C discharge

2: Refer to battery warranty letter for conditional application