



High Voltage Series Connection System

7.5kwh-1200kwh energy storage system

NEW arrive

Technology patent

High-voltage series connection energy storage systems can be connected in series and 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 high voltage, the battery packages can be connected in series in one battery cabinet; customer also add battery cabinets to expand the total capacity of whole system.

Battery Package Series Connection

The high-voltage battery cabinet is composed of 3-8 battery packs connected in series. The voltage range is from 153.6V to 409.6V. Depending on the capacity of a single battery pack, the capacity of a single battery cabinet ranges from 7.5kwh to 20Kwh, 15kwh to 40kwh, and 30kwh to 80kwh. A single battery cabinet can support 1-3 phase inverters.

Battery Cabinet Parallel Connection

A high-voltage series energy storage system formed by connecting battery packs in series. In addition, 1 to 15 battery cabinets can be directly connected in parallel, and the total capacity can achieve 7.5kwh to 300kwh, 15kwh to 600kwh, 30kwh to 1200kwh. The high-voltage series system works with the battery combiner box, which can support 1 ~ 3 phase inverters



Battery Cabinet

Multiple battery package connected in series

15 x Battery Cabinet

Can support up to 15 battery cabinets in parallel connection
Voltage Range 51.2V to 409.6V

Change Anytime

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

High Voltage

High voltage output matches more electrical appliances

2.5Kwh Series



Battery Package	High Voltage Battery Package (2.5kwh, 51.2V,26Kg)					
Number of Package	3	4	5	6	7	8
Usable Capacity	7.5Kwh	10Kwh	12.5Kwh	15Kwh	17.5Kwh	20Kwh
Cont. Output Current	100A	100A	100A	100A	100A	100A
Peak Output Current	120A, 1s	120A, 1s	120A, 1s	120A, 1s	120A, 1s	120A, 1s
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operating Voltage	120~175.2V	160~233.6V	200~292V	240~350.4V	280~408.8V	320~467.2V
Dimensions (H/W/D)	840* 300*550mm	1020* 300*550mm	1200* 300*550mm	1380* 300*550mm	1560* 300*550mm	1740* 300*550mm

5 Kwh / 10Kwh Series

Battery Package	High Voltage Battery Package (5kwh, 51.2V,49Kg)					
5Kwh Package Usable Capacity	15Kwh	20Kwh	25Kwh	30Kwh	35Kwh	40Kwh
Dimensions (H/W/D)	870* 435*700mm	1060* 435*700mm	1250* 435*700mm	1440* 435*700mm	1630* 435*700mm	1820* 435*700mm
Battery Package	High Voltage Battery Package (10kwh, 51.2V,83Kg)					
10Kwh Package Usable Capacity	30Kwh	40Kwh	50Kwh	60Kwh	70Kwh	80Kwh
Dimensions (H/W/D)	1095* 435*700mm	1360* 435*700mm	1625* 435*700mm	1890* 435*700mm	2155* 435*700mm	2420* 435*700mm
Cont. Output Current	120A	120A	120A	120A	120A	120A
Peak Output Current	150A, 1s	120A, 1s	150A, 1s	150A, 1s	150A, 1s	150A, 1s
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operating Voltage	120~175.2V	160~233.6V	200~292V	240~350.4V	280~408.8V	320~467.2V

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