Specification

of DCB-1-250-HV

1. Product introduction

1.1 Product introduction

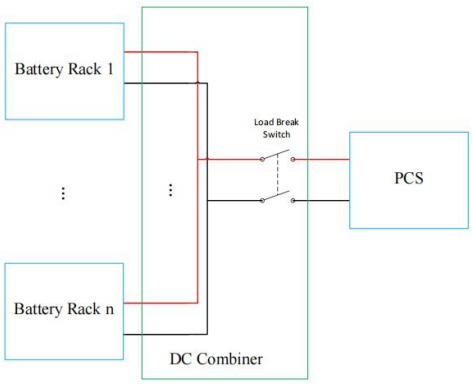
HV Combiner Box in the energy storage system is to ensure that the energy storage component orderly connection and the connection device of flow function. Combiner Box can guarantee energy storage system is easy to cut off the circuit when maintenance, inspection, failure occurs when the energy storage system, reduce the scope of the power outage ensure availability of system.

1.2 Product introduction

Item		UNit	SPEC
Battery Voltage Range		Vd.c	179.2~876
Battery Current Range		A	0~250
Power supply rated supply voltage		V	24VDC/220VAC
Maximum number of battery clusters supported			3
Dimension(W*D*H)		MM	650*580*187
Weight		KG	21.2
IP Rating			IP20
Altitude		m	4000
Operating Temperature		℃	-20~60

2. Basic principles and structures

2.1 working principle block diagram



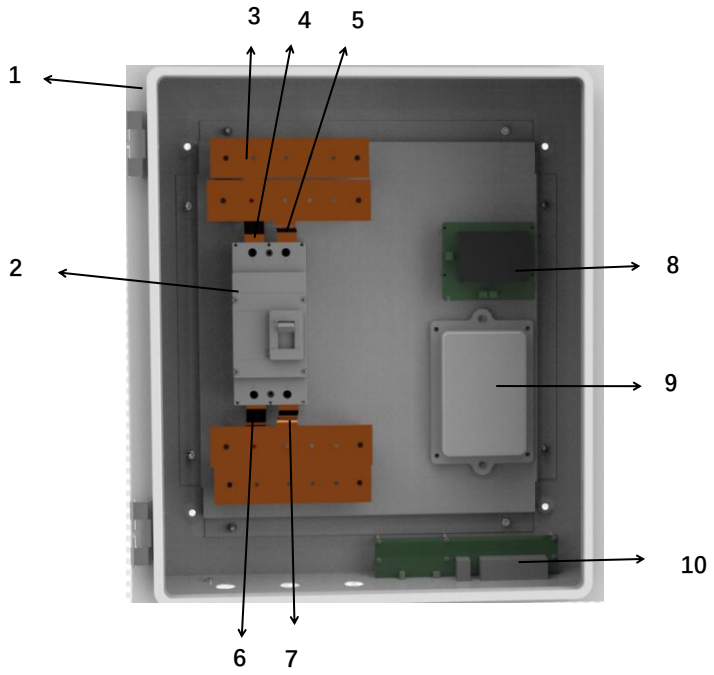
Working principle block diagram

2.2 working principle

The bus box is mainly composed of bus copper bars, switches and boxes. When the switch is closed, the electric cabinet of each branch passes through the copper confluence .

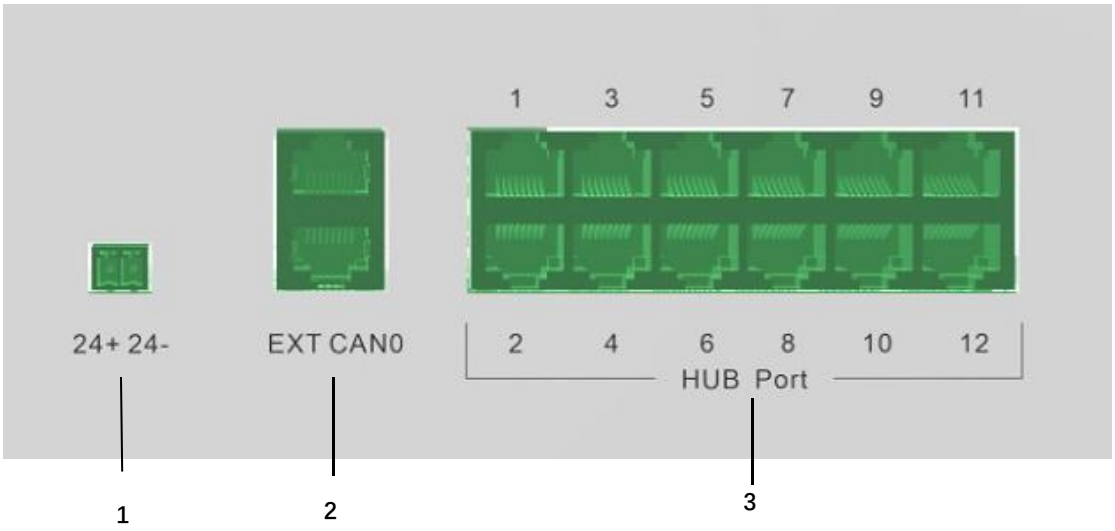
The row is connected to the PCS to realize the energy interaction between the cabinet and the PCS. When the switch is turned off, the energy storage system can be maintained.

2.3 appearance and structure



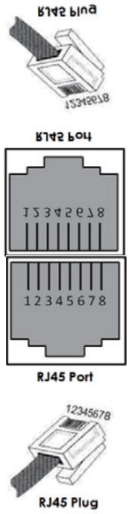
Item	Name	Definition
1	box	HV combiner box
2	switch	When working normally, close the disconnecting switch; Turn off the disconnector when maintaining the device
3	busbar	Converging copper bar
4	Positive port of PCS	A maximum of three cables can be connected
5	Negative port of PCS	A maximum of three cables can be connected
6	Positive port of electrical box	Up to three electric box can be connected
7	Negative port of electrical box	Up to three electric box can be connected
8	AC/DC	Convert 220VAC to 24VDC to supply power to BMS
9	BMS	The master BMS is used to summarize the battery data of each cluster and communicate with the inverter

10	Multi-function Signal PCB	Integrate functions such as 24V power supply and communication conversion



Item	Name	Definition
1	24V input	Connected to 24VDC power supply to supply power to BMS
2	CAN/RS485 RJ45	Communication interface with external devices
3	CAN RJ45	Connect the internal communication of each cluster of batteries

2. 4 Communication Port Definition



CAN

PIN (RS485)	Color	Definition
PIN1	Orange/white	NC
PIN2	Orange	NC
PIN3	Green/white	
PIN4	Blue	CANH
PIN5	Blue/white	CANH
PIN6	Green	NC
PIN7	Brown/white	NC
PIN8	Brown	NC
PIN (CAN)	Color	Definition
PIN1	Orange/white	NC
PIN2	Orange	NC
PIN3	Green/white	NC
PIN4	Blue	CANH

PIN5	Blue/white	CANL
PIN6	Green	NC
PIN7	Brown/white	NC
PIN8	Brown	NC

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