Installation Guide of Hub

-- Pytes Technical Group

1. Cable Connection

custom-made cable

standard cable

Power button   RS232   RS485   Interfaces   Grand

POWER
ON
OFF
ADD
DIP Switch   Console   CAN   RS485   Link Port 1   POWER   DC input   Link Port
CAN   Link Port

Port 0 Port 2 Port 4 Port 6 Port 8
Port 1 Port 3 Port 5 Port 7 Port 9

- **Power Cable (+)**
- **Power Cable (−)**
- **Communication Cable**
- **Ground Cable**

standard cable

standard cable

standard cable
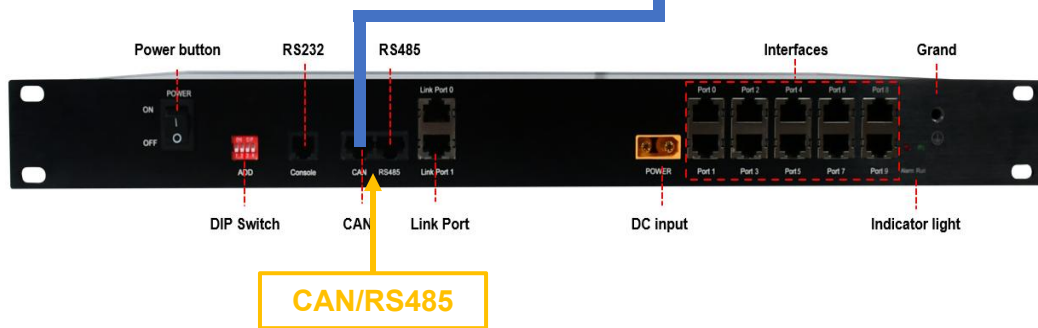
Inverter   Group 1   Group 2   Group 3

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custom-made cable : BMS CAN/RS485 port of Inverter to CAN/RS485 port of hub
standard cable : Link Port 1 of hub to Port 0 of hub
standard cable : CAN port of the Master battery of Group 1 to Port 1 of hub
standard cable : CAN port of the Master battery of Group 2 to Port 2 of hub
standard cable : CAN port of the Master battery of Group 3 to Port 3 of hub
standard cable : Link 1 port of Master battery to Link 0 port of slave battery ……
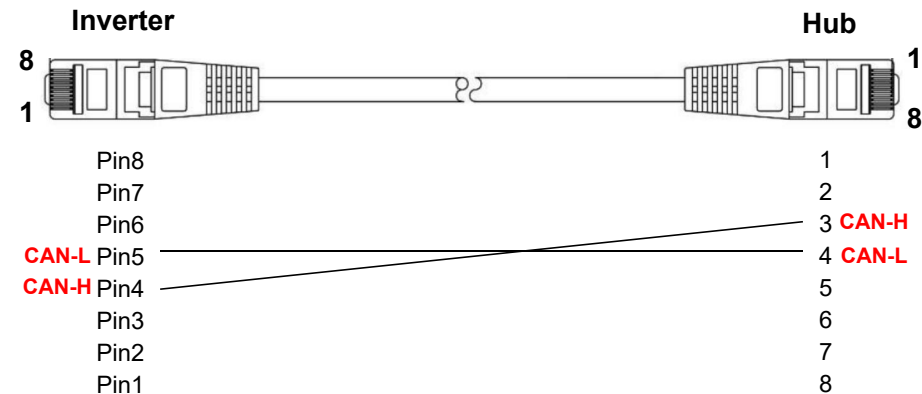+/- power cables: DC input terminal of hub to DC terminals of any battery
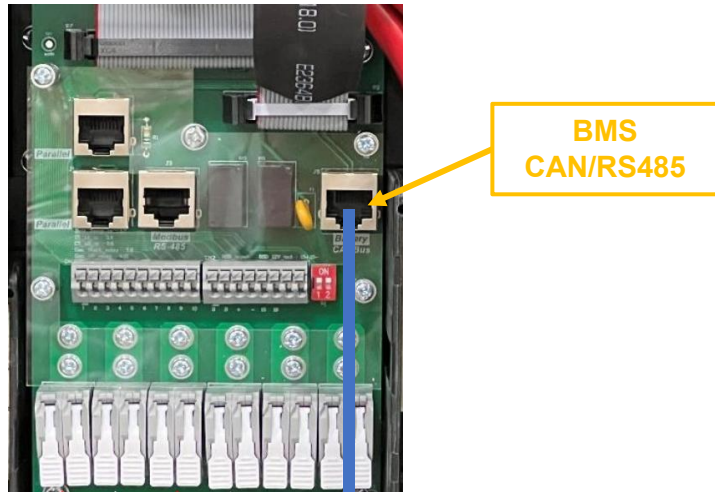
BMS CAN/RS485

custom-made cable

CAN/RS485

Choose to connect to CAN or RS485 port according to the inverter protocol

Pin number of Hub to Inverter

PinNumber	Hub RS485	Hub CAN	Sol Ark	Voltronic Hybrid	Voltronic Off-grid	Solis	Afore
1	RS485B		RS485B				
2			RS485A				
3	RS485A	H			RS485B		RS485A
4		L	H	RS485B		H	H
5			L	RS485A	RS485A	L	L
6	GND						RS485B
7			RS485A				
8			RS485B	GND	GND		

PinNumber	Luxpower	SRNE	Growatt	GOODWE	Victron	SMA	Megarevo
1	RS485B		RS485B	RS485A			
2	RS485A		RS485A	RS485B			
3	L						
4	H		H	H		H	H
5		H	L	L		L	L
6		L					GND
7		RS485A			H		RS485A
8		RS485B			L		RS485B

Inverter   **Hub**

8
1

1
8

Inverter		Hub
Pin8		1
Pin7		2
Pin6		3 CAN-H
CAN-L Pin5		4 CAN-L
CAN-H Pin4		5
Pin3		6
Pin2		7
Pin1		8

3. DIP Switch Setting

DIP Switch of Hub

Victron		Sol Ark		Afore		Solis	
Voltronic		Studer		SRNE		Empty	
Goodwe		KeLong		SMT		SMA	
Megarevo		Growatt		Empty		Luxpower	

DIP Switch of Master battery

Group1		Group5	
Group2		Group6	
Group3		Group7	
Group4		Group8	

(4-digit DIP)

Group1		Group5	
Group2		Group6	
Group3		Group7	
Group4		Group8	

(6-digit DIP)

Interfaces   Grand

Port 0   Port 2   Port 4   Port 6   Port 8
POWER   Port 1   Port 3   Port 5   Port 7   Port 9

DC input   Indicator light

Master battery   **Master battery**

Slave batteries   **Slave batteries**

Group 1   **Group 2**
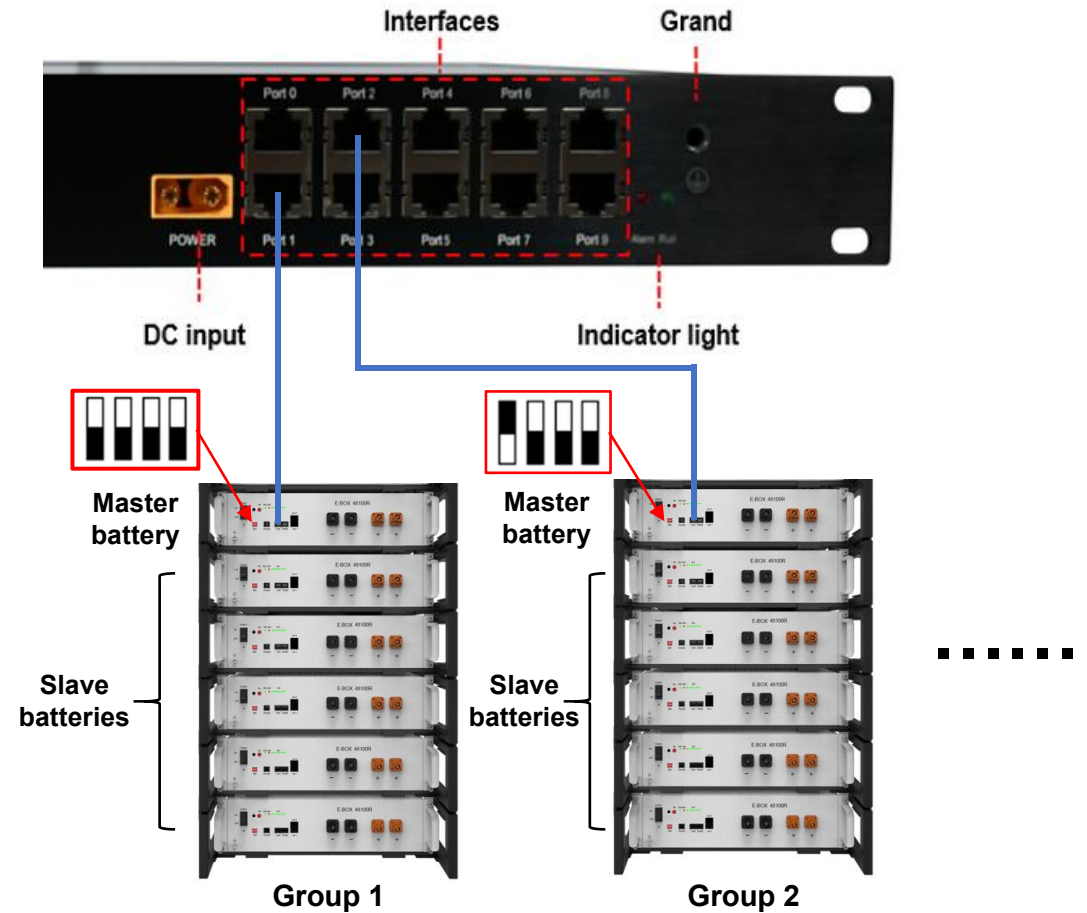
No special requirement for the DIP Switch setting of the Slave batteries