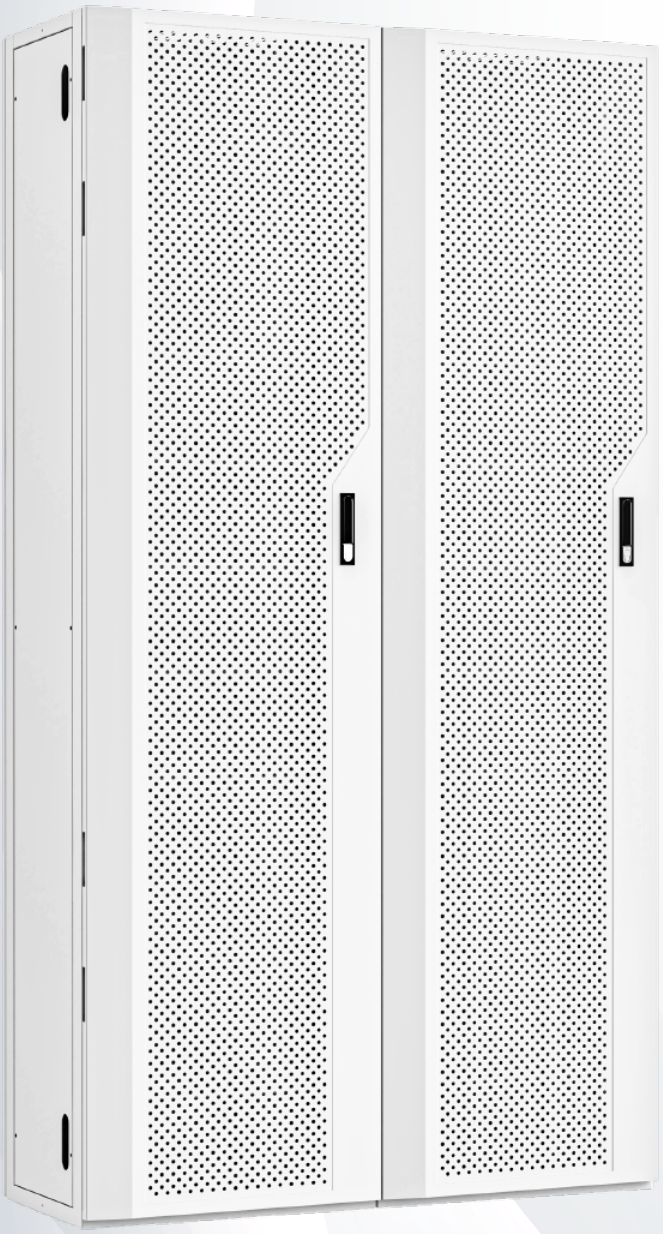
stromherz

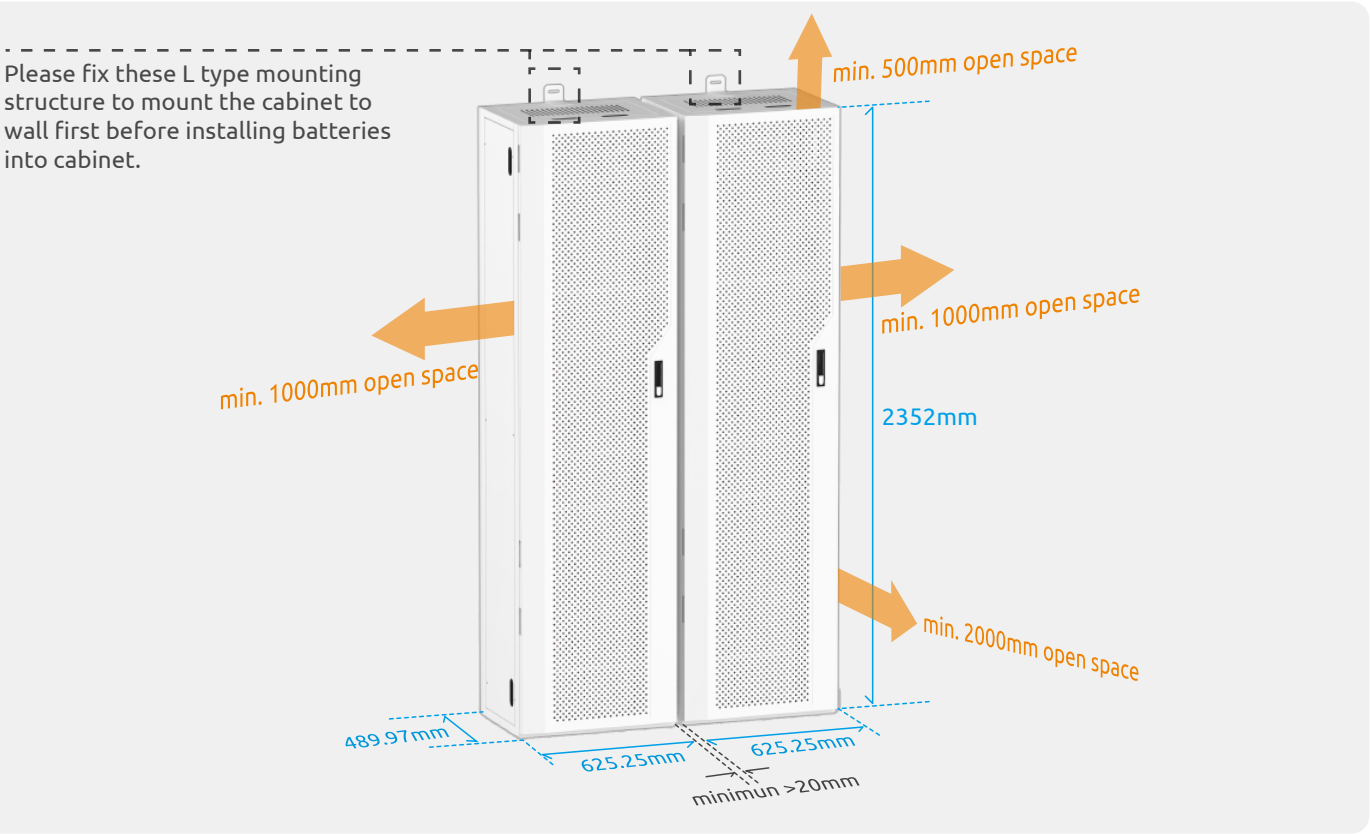


806V-80.6kWh single rack HV Commercial Battery

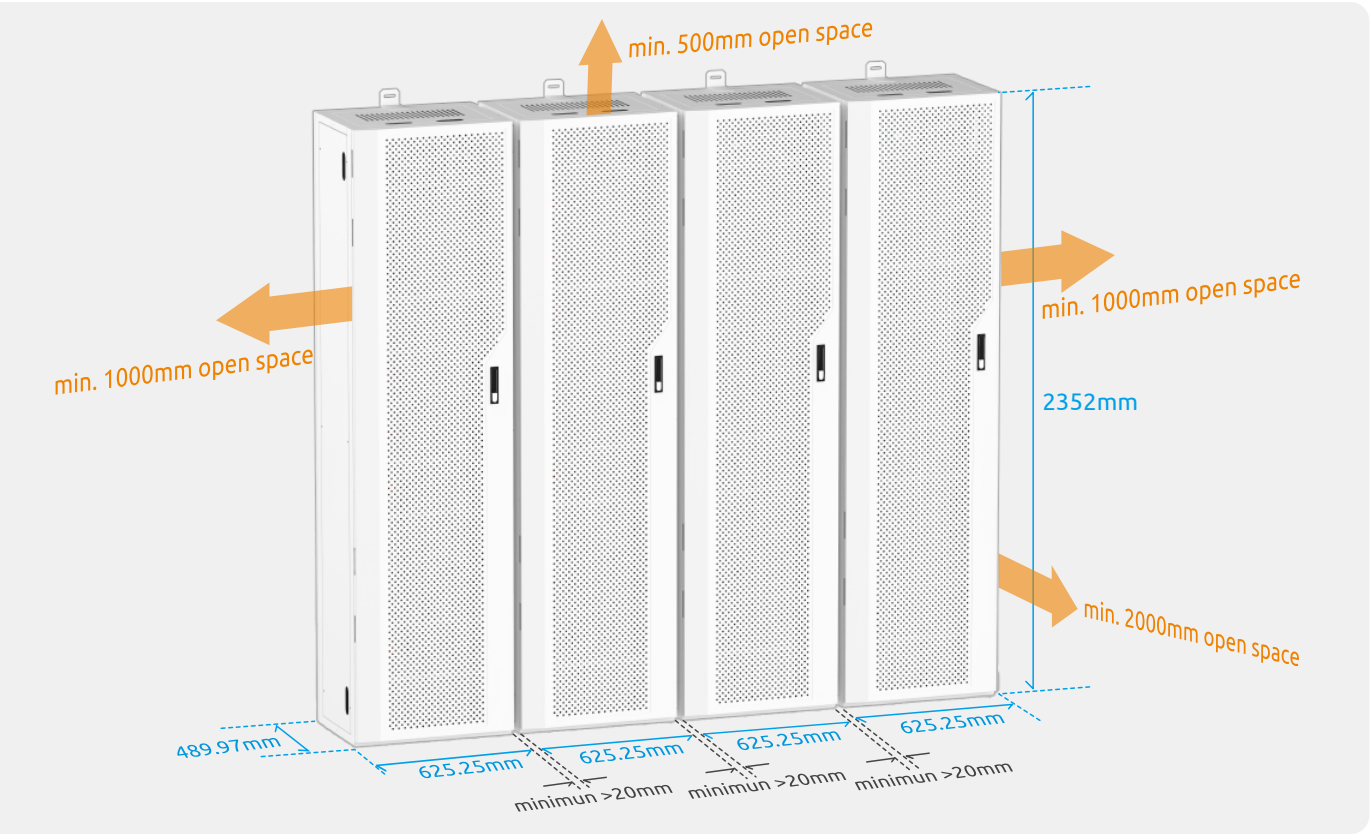
Technical White Paper

Cabinet Installation

80.6kWh single rack installation



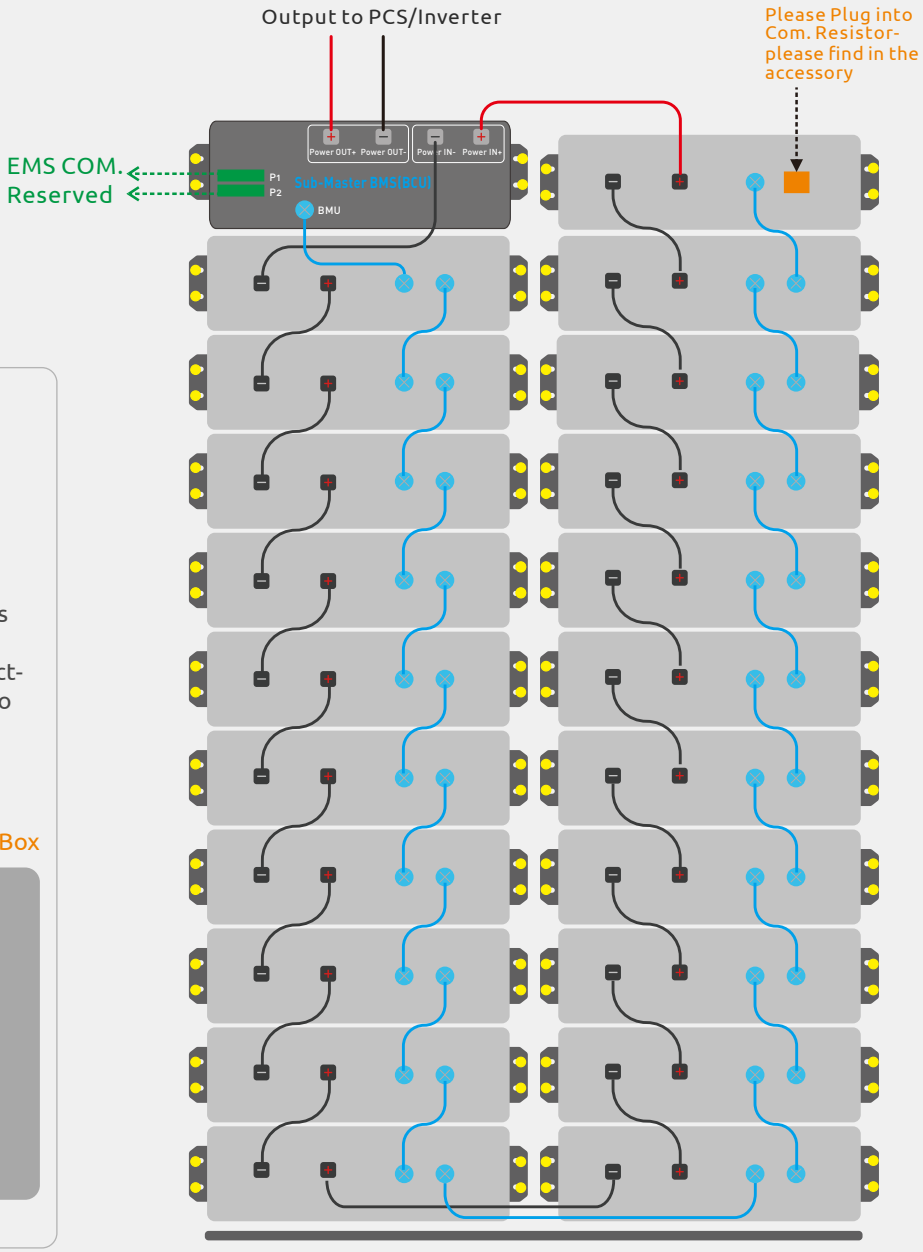
160kWh(80.6kWh*2) 2 racks installation



System Diagram

Power/COM./Grounding Cables Connection

Power Cable -
Power Cable +
COM Cable
Battery System Grounding Point
COM. Resistor

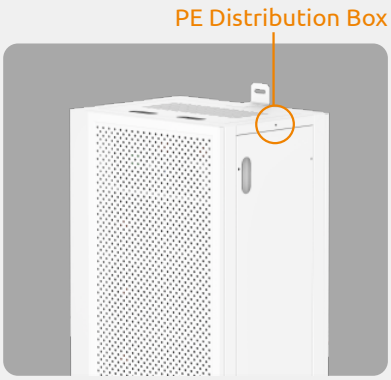


Single Rack Connection Diagram

ATTENTION

Grounding Note

When you mount the batteries and BMS to cabinet with screws fixed, all the battery cases grounding will be series connected to cabinet, then only need to connect the grounding of cabinet(side top) to the PE distribution box.



System Datasheet

Nominal Voltage	806Vdc
Nominal Capacity	100Ah/80.6kWh
Operation Voltage	630V~919V
Recommended DOD	90%
Maximum Charge/Discharge Current	100A
Operation Temperature	0~50
Storage Temperature	-20~60
Cabinet Size [W*H*D]	1270.5*2352*490mm
Cabinet Weight	950kg
Cabinet IP Rate	IP 21
Cycles	10,000 cycles
User Interface	PC based monitor
External Com/Control	RS-485 ModBus

System Start-up Procedure

Step-1, Please make sure both COM and power cables are connected correctly including grounding cable.

ATTENTION When you mount the batteries and BMS to cabinet with screws fixed, all the cases grounding will be series connected to cabinet, then only need to connect the grounding of cabinet(side top) to the PE distribution box.

Step-2, Please turn on MAIN Switch on Sub-Master BMS box(BCU).

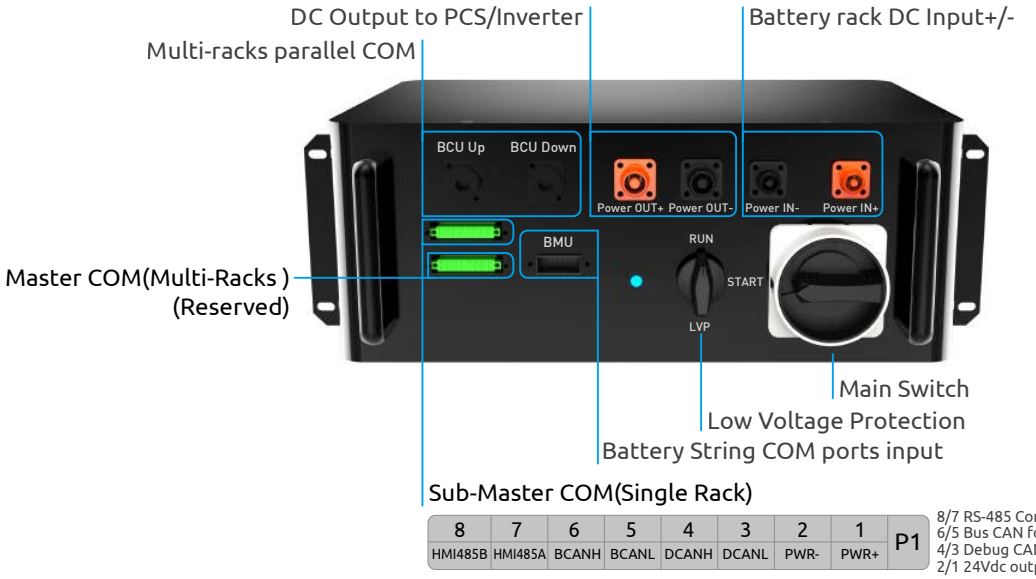
Step-3, Please turn LVP from RUN to START, then switch back to RUN.

WARNING Please always keep LVP at RUN position after starting up, or the batteries has high risk of going to flat, LVP is the hardware level protecting of the batteries from over-discharge.

Step-4, Waiting the LED indicator flashing green to solid green.

Step-5, Start Up success.

Sub-Master BMS(BCU)



8	7	6	5	4	3	2	1	
HMI485B	HMI485A	BCANH	BCANL	DCANH	DCANL	PWR-	PWR+	P1

8/7 RS-485 Com. Ports for external Control(Smart1 EMS)
6/5 Bus CAN for Multi-racks internal CAN COM.
4/3 Debug CAN for single rack CAN COM.
2/1 24Vdc output to external device