

User manual

HV Pack Parallel Box

HPPB1-4

April.2021| Revision 1.1

1. Product Introduction

The HV parallel box is used when connecting Soluna 10K Pack HV and 15K Pack HV batteries in parallel.

2. Outline Dimension

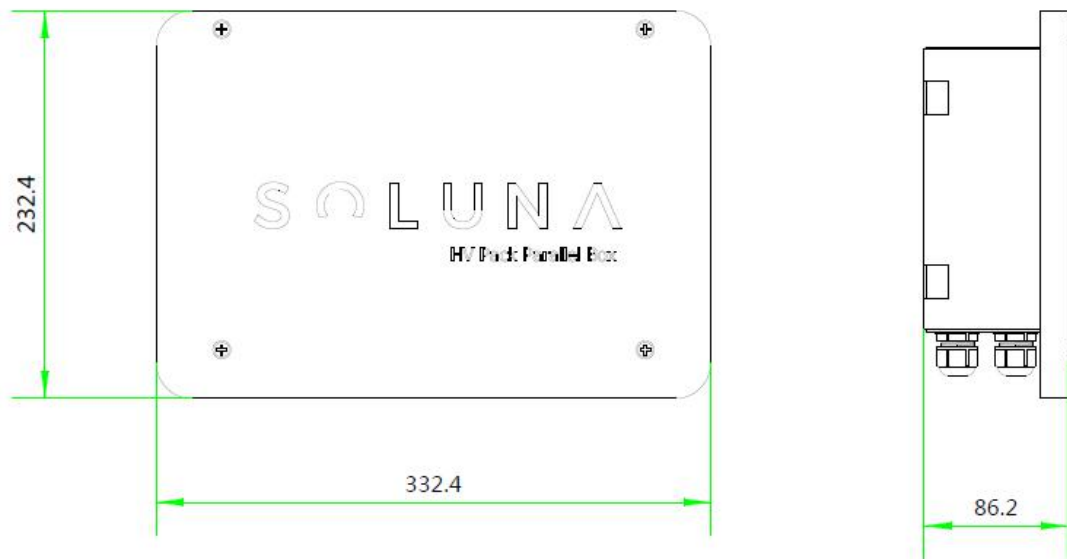


Figure 1.1 outline dimension

Length	332.4	mm
Width	232.4	mm
Height	86.2	mm
Weight	3.5	kg

3. Technical data

Electrical Connecting Port

Operating Voltage	530VDC
Input Current (Max)	50A*4
Output Current (Max)	175A
Input cable size (Max)	4*10mm ²
Output Cable size (Max)	35mm ²

Communication Connecting Port

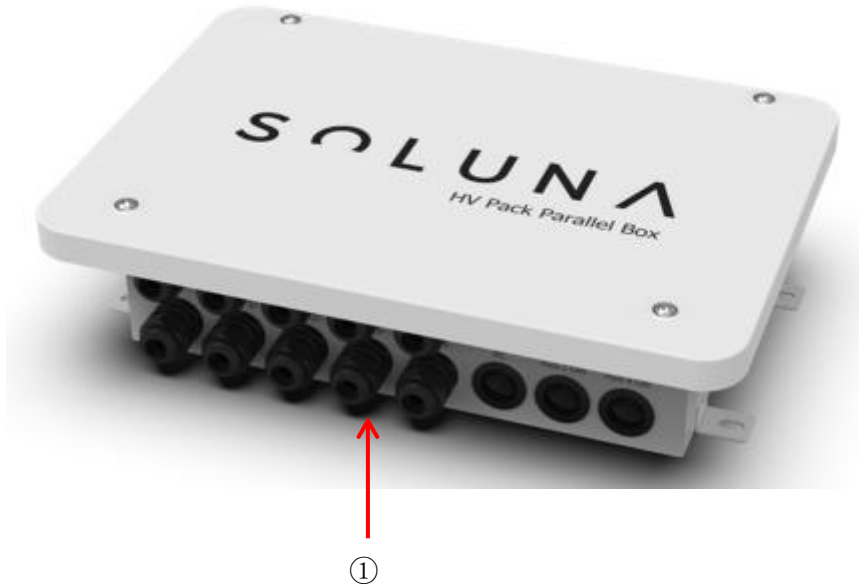
Communication connection - port type	RJ45 (8P)
Input Communication connecting port (QTY)	4
Output Communication connecting port (QTY)	2

Regular parameters

Operating temperature range (°C)	-20~+50
Storage stability range (°C)	-20~+60
Relative humidity	0~95%
Ingress protection	IP54
Installation	Indoors

4. Appearance

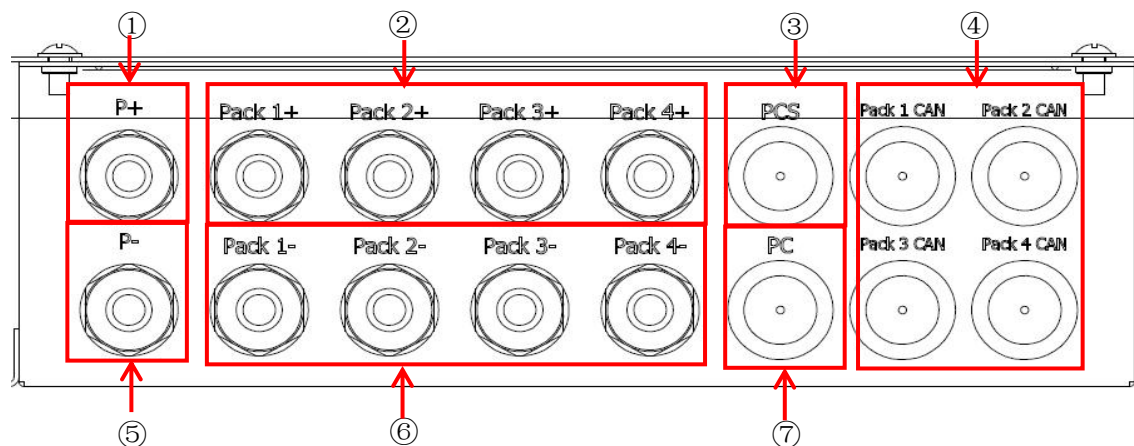
Image for reference only and subject to change.



Number	Name	Remark
①	Cable connection section of battery & Communication cables	

Note: Remove front cover to expose cable routes.

4 Interface definition



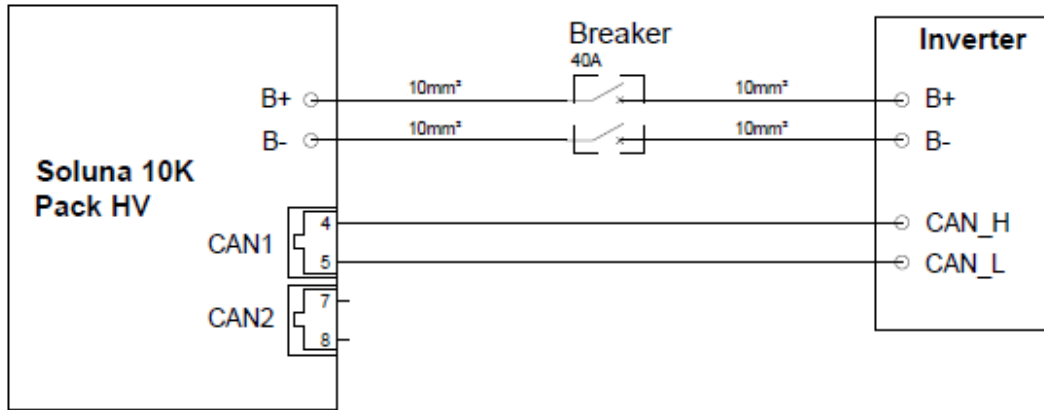
Number	Name	Remark
①	P+	Positive of battery (Output)
⑤	P-	Negative of battery (Output)
②	Pack+	Connect to the positive of battery (Input)
⑥	Pack-	Connect to the negative of battery (Input)
③	PCS	Connect to CAN communication of inverter
⑦	PC	Using for monitor BMS parameters
④	CAN	Connect to CAN2 of battery

5 Caution

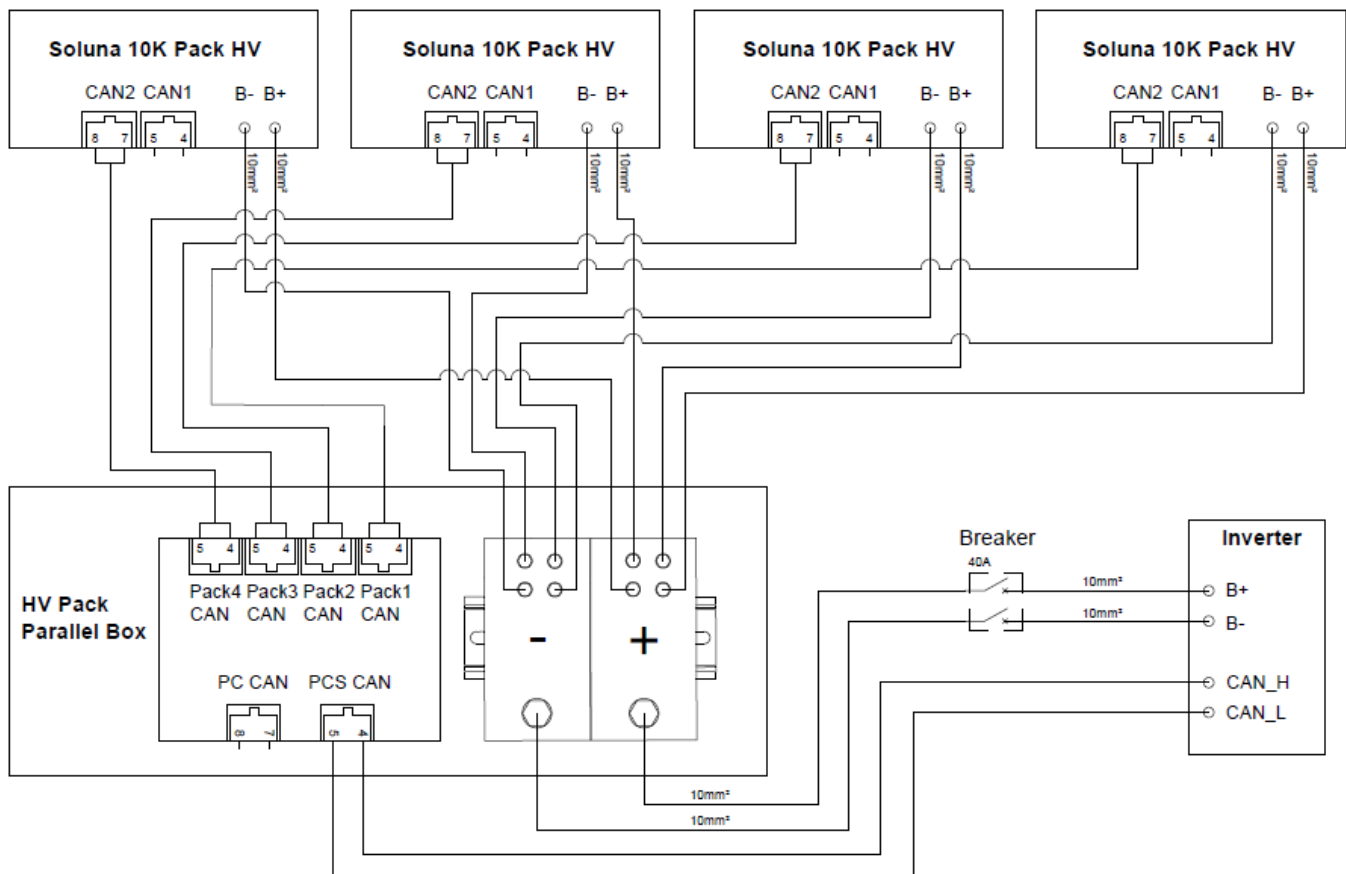
- 1) IMPORTANT: Isolate power to both the inverter and battery before you connect the parallel box to avoid product damage or electric shock.
- 2) The HV Pack parallel box must be grounded.

5 Electrical connection

5.1 Single battery unit

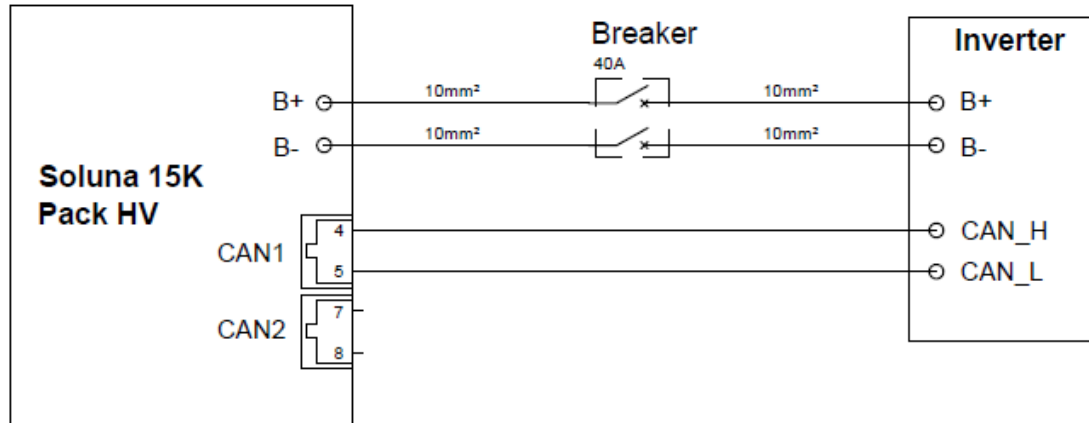


5.2 The battery units are connected in parallel



5 Electrical connection

5.1 Single battery unit



5.2 The battery units are connected in parallel

