

User manual

HV Pack Parallel Box

HPPB1-4

August.2020| Revision 1.0

1. Product Introduction

This unit can only be used when connecting Soluna 10K Pack HV and 15K Pack HV in parallel. ◦

2. Outline Dimension

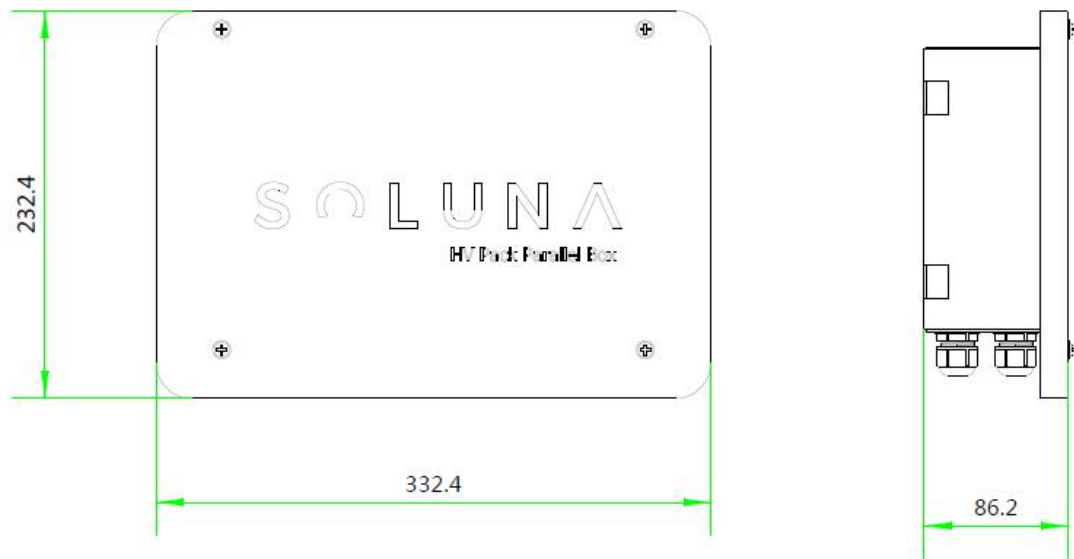


Figure 1.1 outline dimension

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

3. Technical data

Electrical Connecting Port

Working Voltage	530VDC
Input Current (Max)	50A*4
Output Current (Max)	175A
Input Wiring (Max)	4*10mm ²
Output Wiring (Max)	35mm ²

Communication Connecting Port

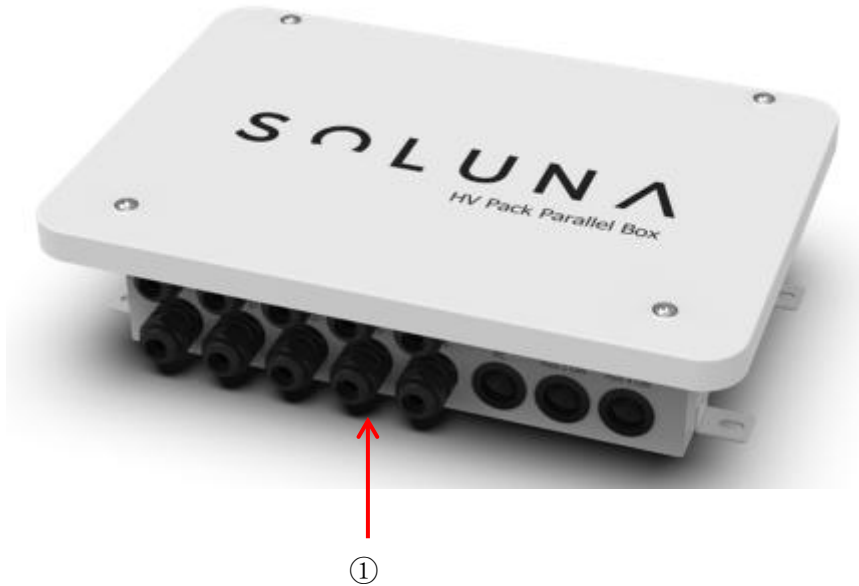
Communication connecting port type	RJ45 (8P)
Input Communication connecting port (QTY)	4
Output Communication connecting port (QTY)	2

Regular parameters

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

4. Appearance

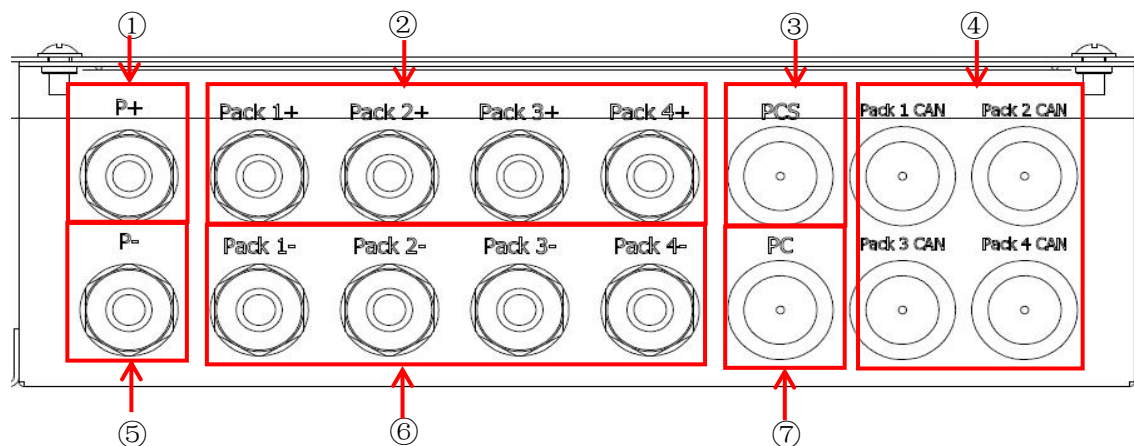
Please find the following pictures for details.



Number	Name	Remark
①	Wiring area of battery & Communication cables	

Remark: Remove the upper cover before connecting wires.

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) MUST cut off the inverter and battery's power before you connect the parallel box, to avoid electric shock.
- 2) The HV Pack parallel box must be grounded.
 - a. Remove the white painting of point 1, see below picture. Then connect the earth wire to the exposed part.
 - b. Loose the screw of point 2, then connect the earth wire to the screw.

