

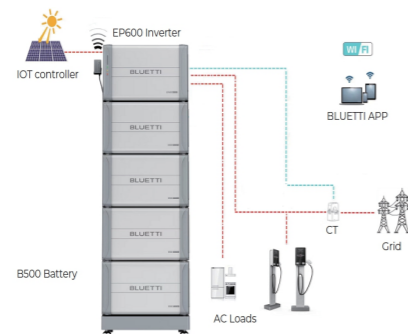
1. Overview

EP600	1 PV input 1	5 LED Indicator	9 Waterproof and ventilate valve	13 USB Port
	2 PV input 2	6 Signal Port 1	10 COM Communicate Port	14 Load Port
	3 DC ON/OFF	7 Signal Port 2	11 CT Input Port	15 Grid Port
	4 Battery	8 Battery	12 DRMs Port	16 Ground

B500	1 Negative output cable port	6 Positive output cable	11 Ground wire
	2 Signal connection cable port (Upper)	7 Inverter signal cable port	12 Ground wire port (Bottom)
	3 Signal cable port (Bottom)	8 Waterproof and breathable valve	13 Waterproof and breathable valve
	4 Negative output cable port	9 Positive output cable port (bottom)	
	5 Manual mechanical switch	10 ON/OFF Switch	

2. Installation

2.1 overview



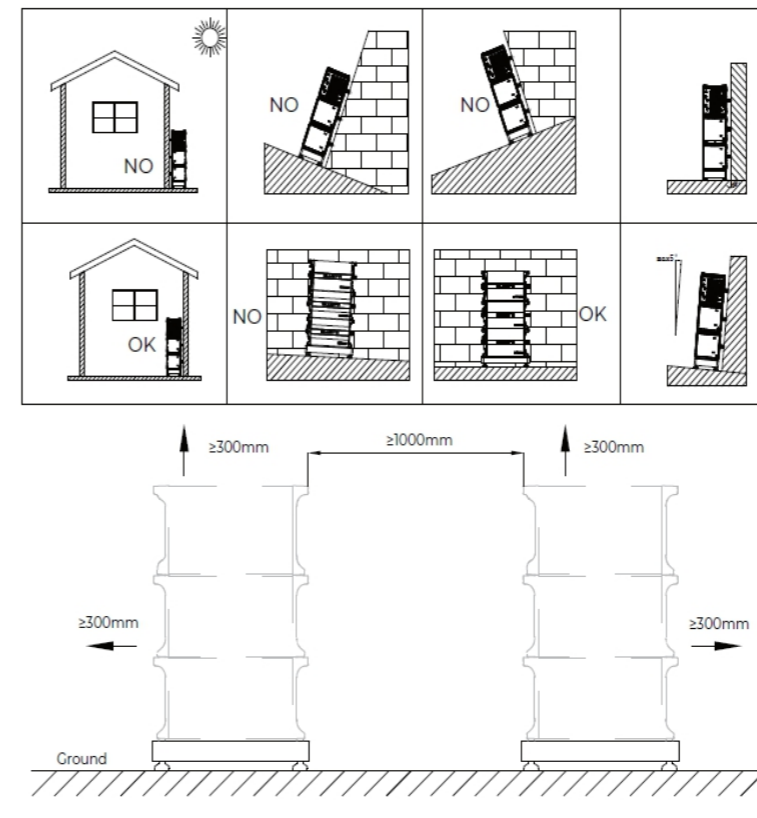
NOTE: The Meter is only used for the situation of installed three phase solar PV inverters, it is provided By BLUETTI and it is free.

NOTES:

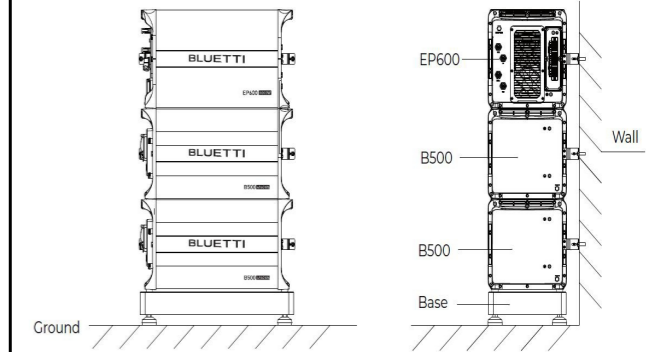
- This document is for quick guidance installation only. For details, please refer to the installation and User Manual.
- Machine damage caused by failure to follow the content is not covered by the warranty.

2. Installation

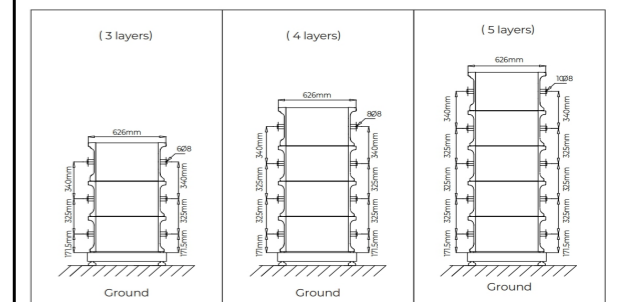
2.2 Installation requirements



2.3 Wall mounting

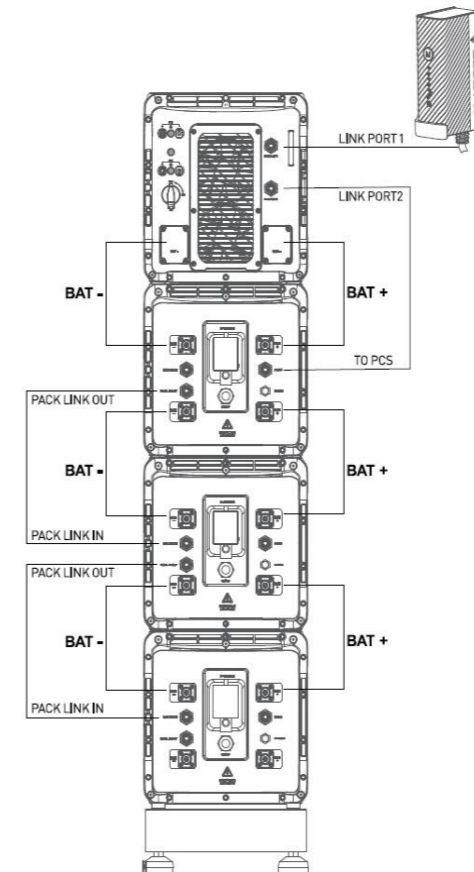


Size of drilling the wall mounting holes (unit: mm):

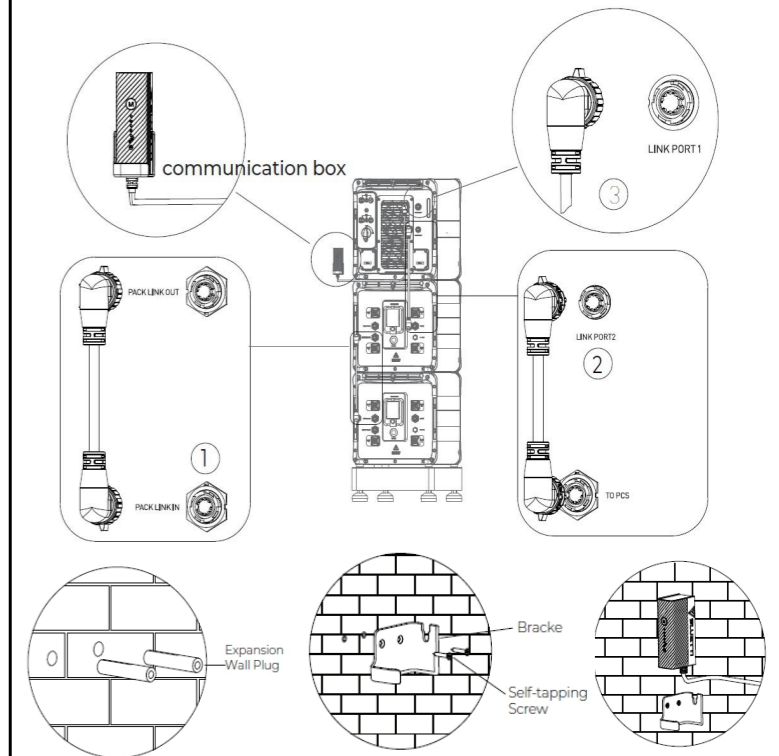


3. Connecting cables

3.1 overview

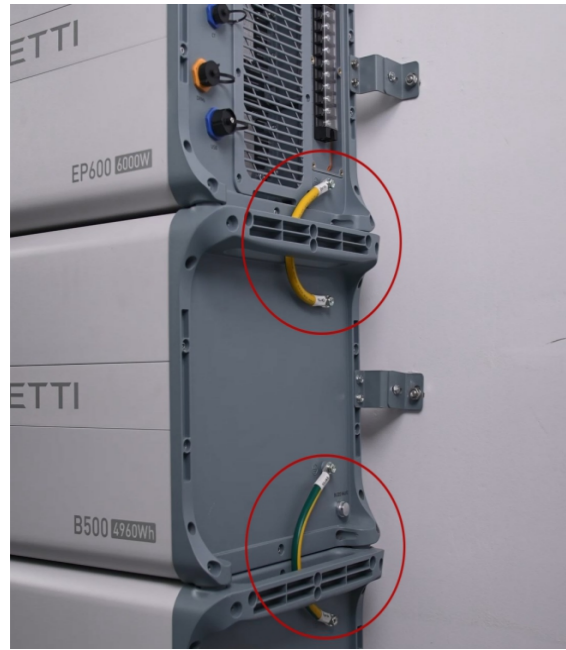


3.2 Connect the communication cable

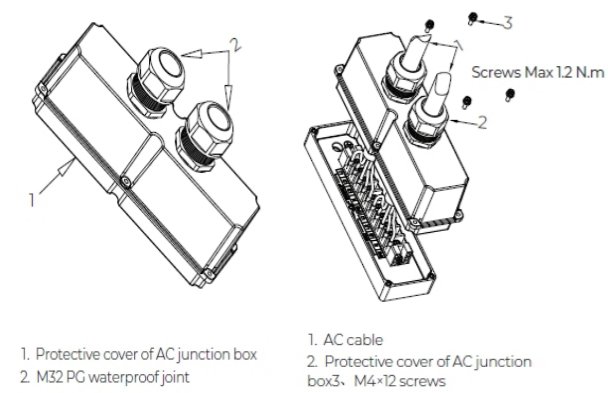
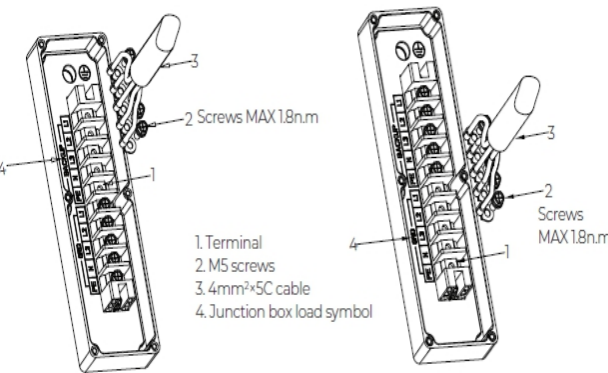
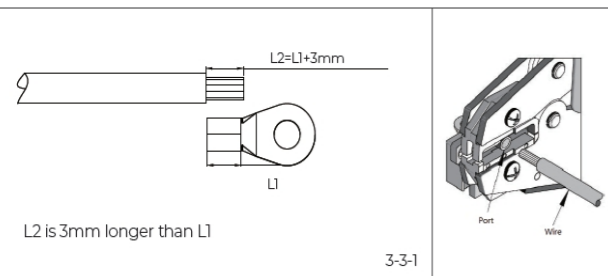


Note: Make sure the router used for EP600 applies to WiFi of IEEE 802.11 b/g/n, 2.4GHz, please turn off the 5G option

3.3 Connect the Ground Cable

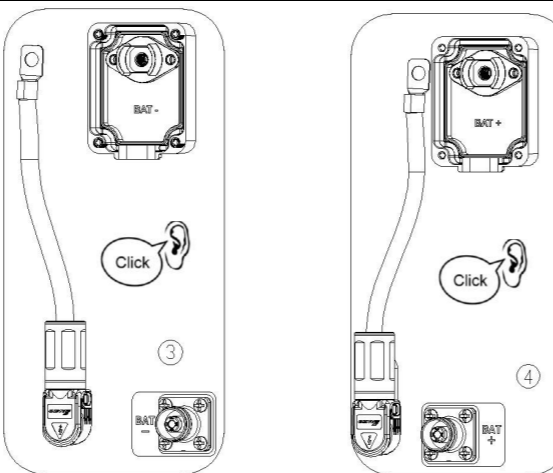
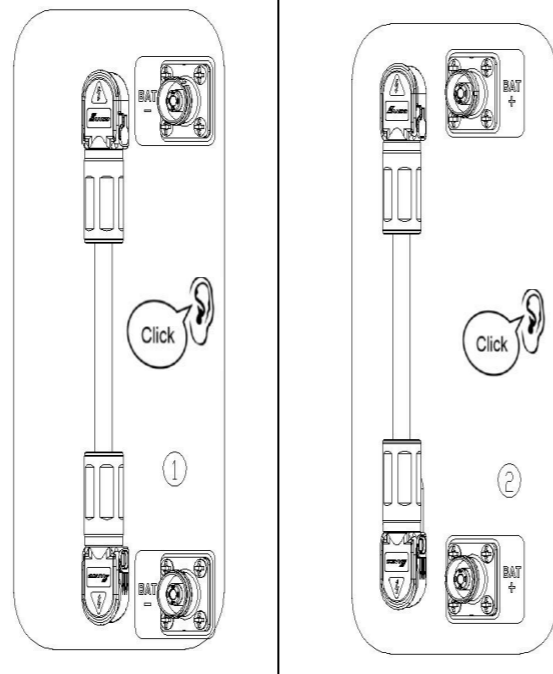
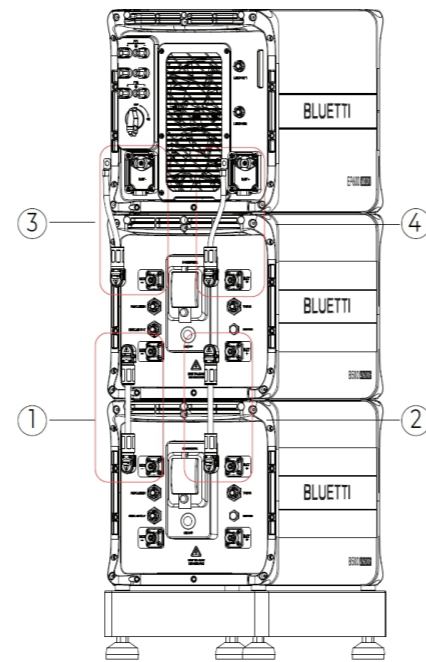


3.4 Connect the GRID and BACKUP Cable



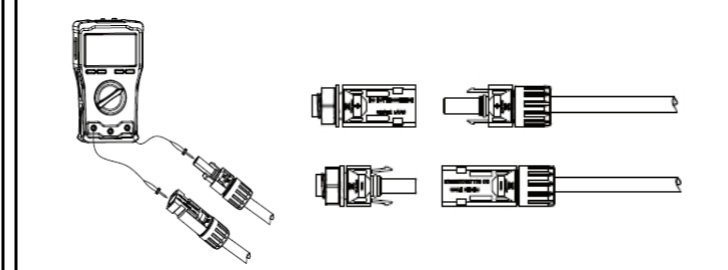
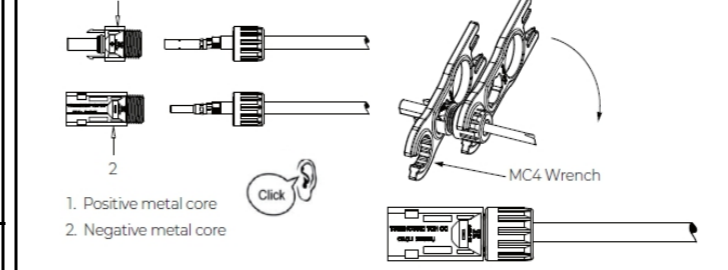
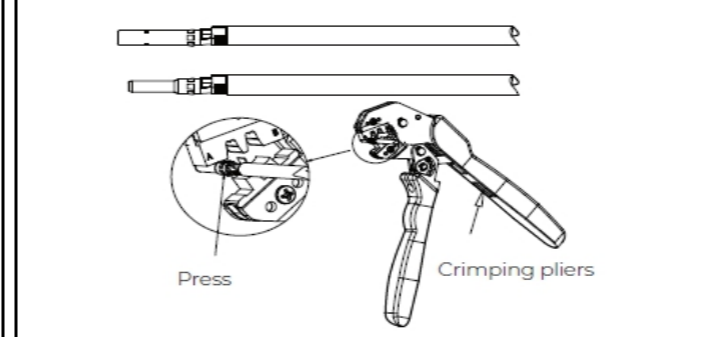
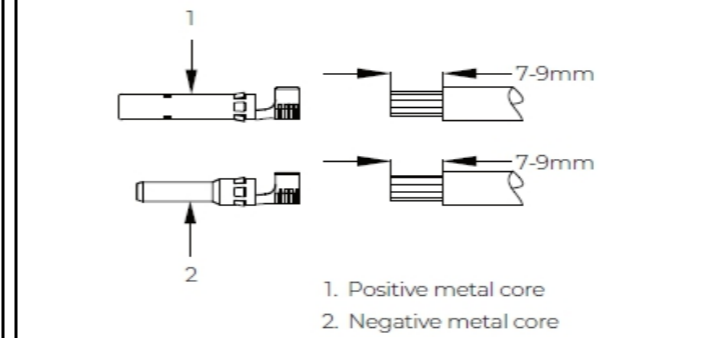
NOTE: It is forbidden to connect the grid cable to the BACKUP interface of EP600.

3.5 Connect the Batteries and EP600



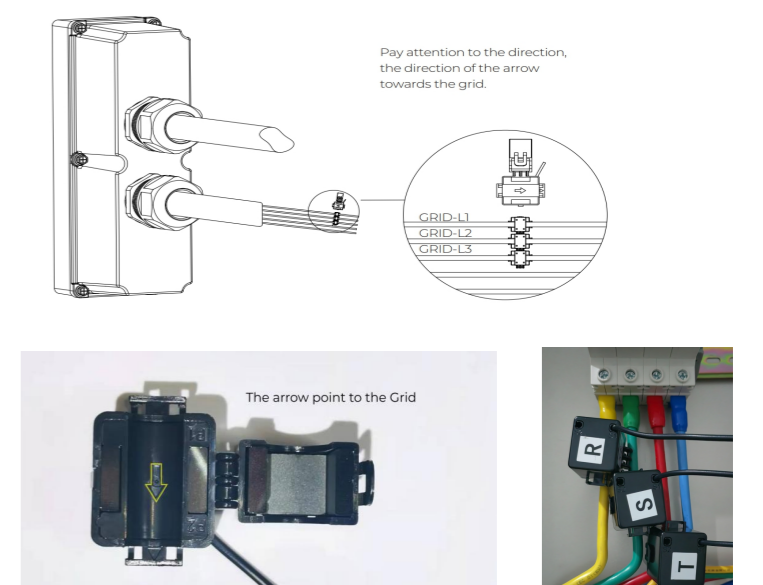
3.6 Connect PV cable

Port	Define	Cable pec.
	PV1+: To solar panel positive	Conductor cross-sectional area 2.5mm ² ~ 4mm ²
	PV1-: To solar panel negative	
	PV2+: To solar panel positive	
	PV2-: To solar panel negative	



NOTE: Please check the solar PV open circuit voltage, it must be less than 500V.

3.7 Connection CT



NOTES:
 1. Make sure the arrow inside the CT points to the grid.
 2. Pay attention to the phase sequence when connect the CT: L1 to R, L2 to S, L3 to T.
 3. The CT connect to the EP600 must be installed onto the L1/L2/L3 cables of the residential main circuit breaker.

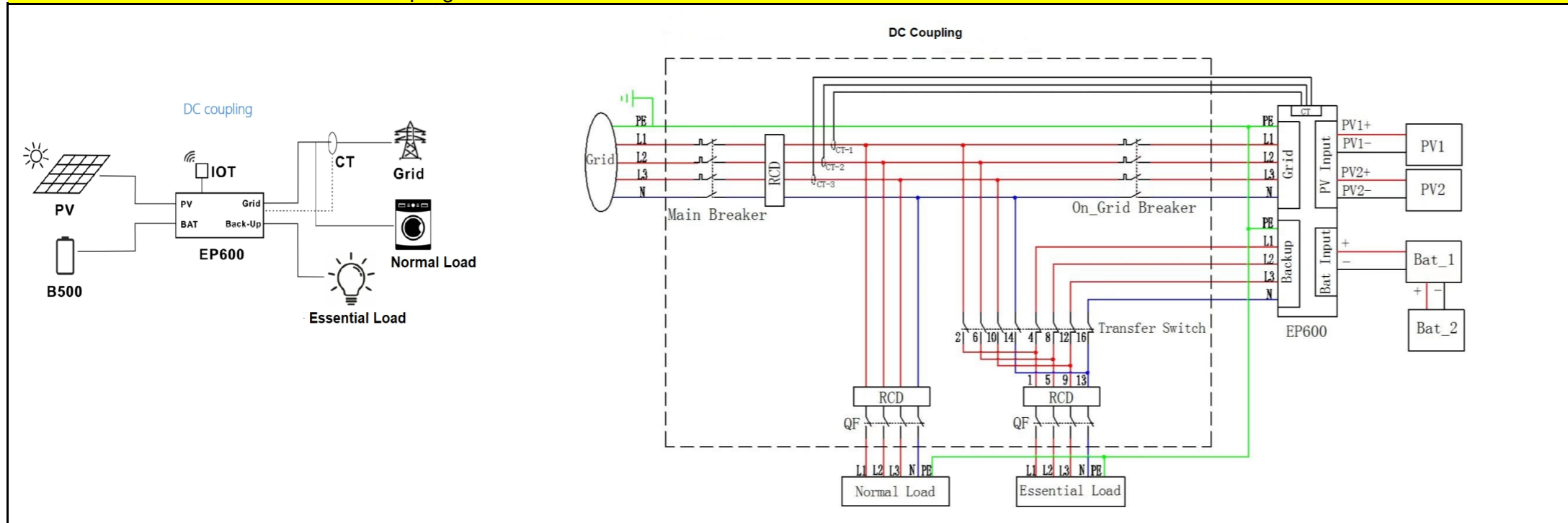
3.7 Connection Transfer Switch



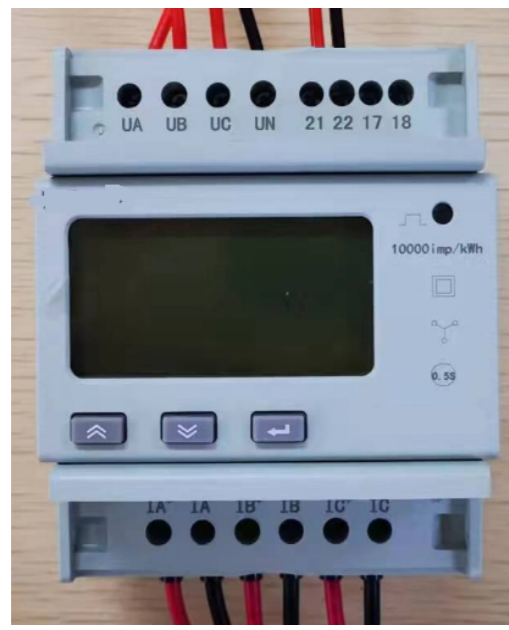
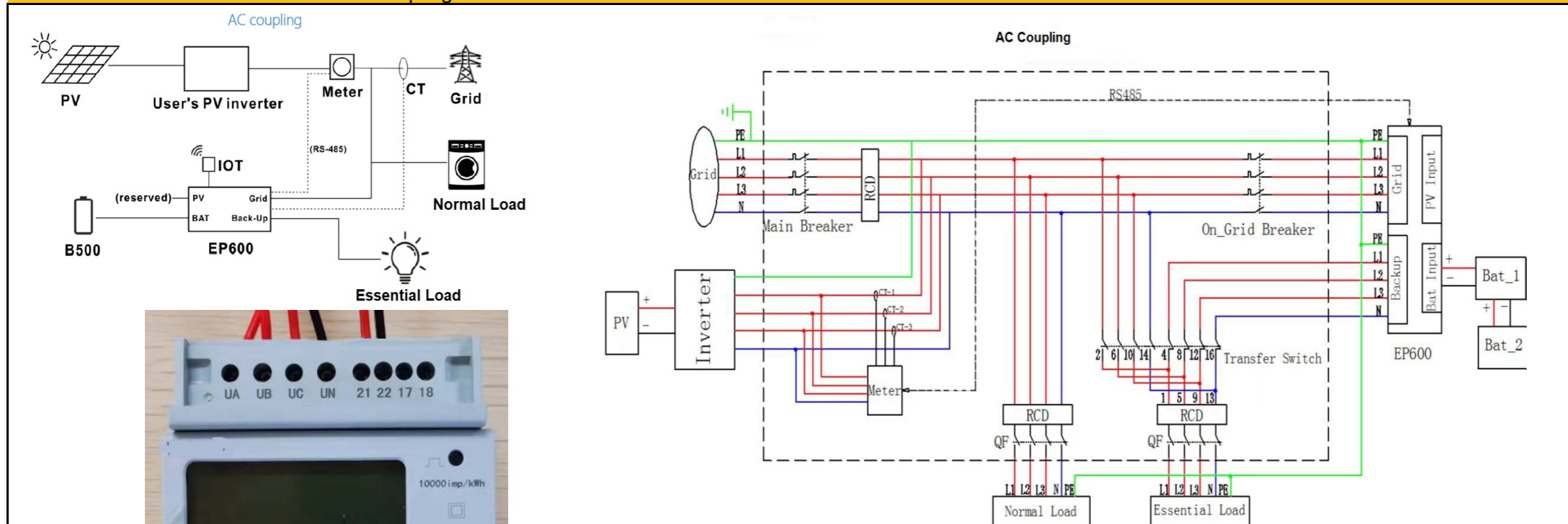
Transfer switch is necessary for building a partial residential backup system.

NOTES:
 1. The neutral cable from the BACKUP interface of EP600 cannot be connected to the neutral cable of the public grid.
 2. Connect the L1/L2/L3/N wires from EP600 BACKUP to the pin 2(L1), pin 6(L2), pin 10(L3), pin 14(N) of transfer switch;
 3. Connect the L1/L2/L3/N wires from public grid to the pin 4(L1), pin 8(L2), pin 12(L3), pin 16(N) of transfer switch;
 4. Move away the wires of the circuit breaker connected to essential appliances, then connect pin1(L1), pin 5(L2), pin9(L3), pin 13(N) of transfer switch.

3.8 Electrical connection modes 1: DC coupling



3.9 Electrical connection modes 2: AC coupling



NOTE:
 The Meter is only applicable to the case where the PV grid-tied inverters have been installed.

- 1) Connect the cables of UA UB UC UN to the L1/L2/L3/N of the PV inverter,
- 2) Connect the cables of the CT to the Meter and tied to the wires of L1/L2/L3/N of the PV inverter.
- 3) Please connect the 485-A red wire to pin 21, 485-B black wire to pin 22.

4. Power on

Step1: Switch on the DC circuit breaker on each B500 battery pack.
 Step2: Press and hold the power button of any battery pack for 3 seconds and the green indicator on the button lights up.
 Step3: Wait for 40 seconds until the green indicator of the inverter is always on.
 Step4: When connecting to the solar panel, please switch on the DC circuit breakers on EP600.
 Step5: Switch on the AC circuit breakers connected to the EP600 grid port.
 Step6: Power on the system via the BLUETTI app. For details, please refer to Setting section on App Manual.
 Step7: Check the voltage of BACKUP.
 Step8: Switch on the AC circuit breakers connected to the EP600 load port.
 END, Then you can check the EP600 system status through the app

States	Run Green light	Alarm Orange light	Fault Red light
No alarm and No fault	Always ON	/	/
Alarm without fault	Always ON	Always ON	/
No alarm with fault	/	/	Always ON
Alarm and fault	/	Always ON	Always ON

Legend:
 Run Indicator (Green)
 Alarm Indicator (Yellow)
 Fault Indicator (Red)

5. Service and contact

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 Mail: logi@bluetti.de
 After-sales address in EU : Lise-Meiner-Strasse 14, 20816 Stuhr, Germany

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