



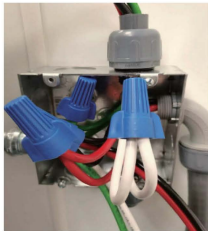
BLUETTI EP800

Quick Guide V2.1

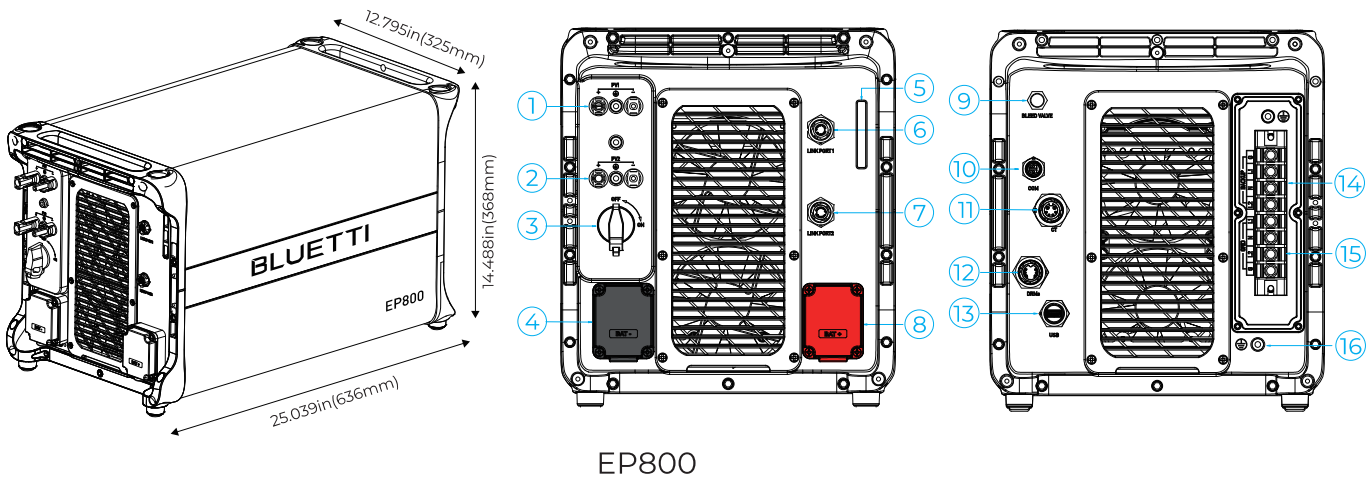
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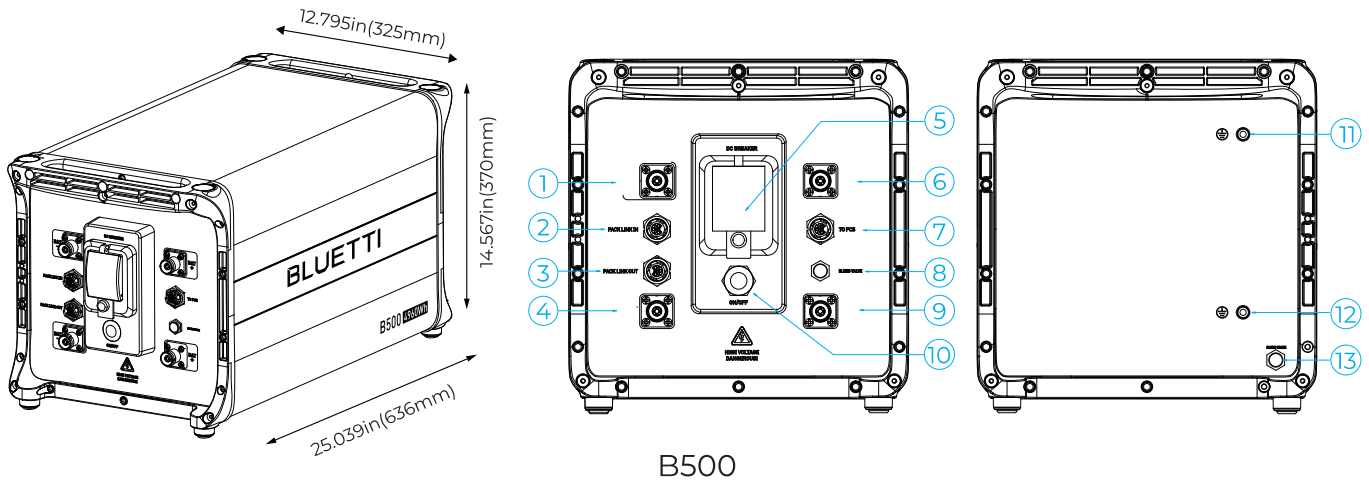
1. Special tools and parts need before installation for EP800

No.	Item	Picture	Remarks
1	Crimping tools		It is not provided by BLUETTI
2	Sub panel (Transfer Switch)		The sub panel with interlock breaker is provided by the BLUETTI
3	AC disconnect		The safety switch is connected between the main panel to the EP800 grid input terminal .60A ,240V. It is not provided by BLUETTI
4	Junction box , and junctions		Recommend to connect the cables from sub panel to EP800 backup terminal . It is not provided by BLUETTI
5	Electric cable		White, black, red ,green , 6 AWG electric cables . It is not provided by BLUETTI
6	Liquid-tight conduit		3/4 inch or above, it is not provided by BLUETTI
7	Electric metallic tube and other accessories		3/4 inch or above, it is not provided by BLUETTI

2. Overview



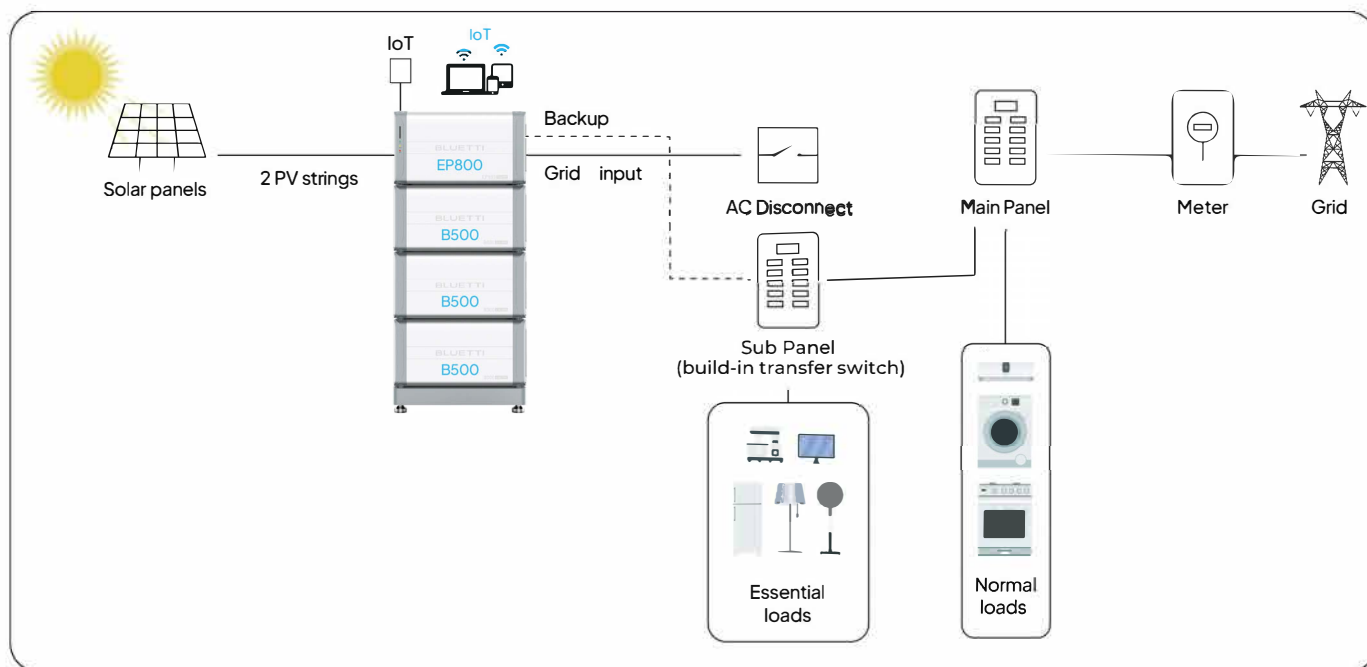
1	PV input 1	5	LED indicator	9	Bleed valve	13	USB port
2	PV input 2	6	IoT signal port (Link Port 1)	10	COM Port (NC)	14	BACKUP Terminal
3	DC switch	7	Battery signal port (Link Port 2)	11	CT	15	GRID Terminal
4	BAT- terminal	8	BAT+ terminal	12	DRMs port (Generator Input)	16	GND Terminal (Grounding)



1	BAT- terminal 1	6	BAT+ terminal 1	11	Grounding port 1
2	Pack link-in	7	TO PCS (Inverter signal port)	12	Grounding port 2
3	Pack link-out	8	Bleed valve 1	13	Bleed valve 2
4	BAT- terminal 2	9	BAT+ terminal 2		
5	Breaker switch	10	Power button		

3. Installation

3.1 Overview

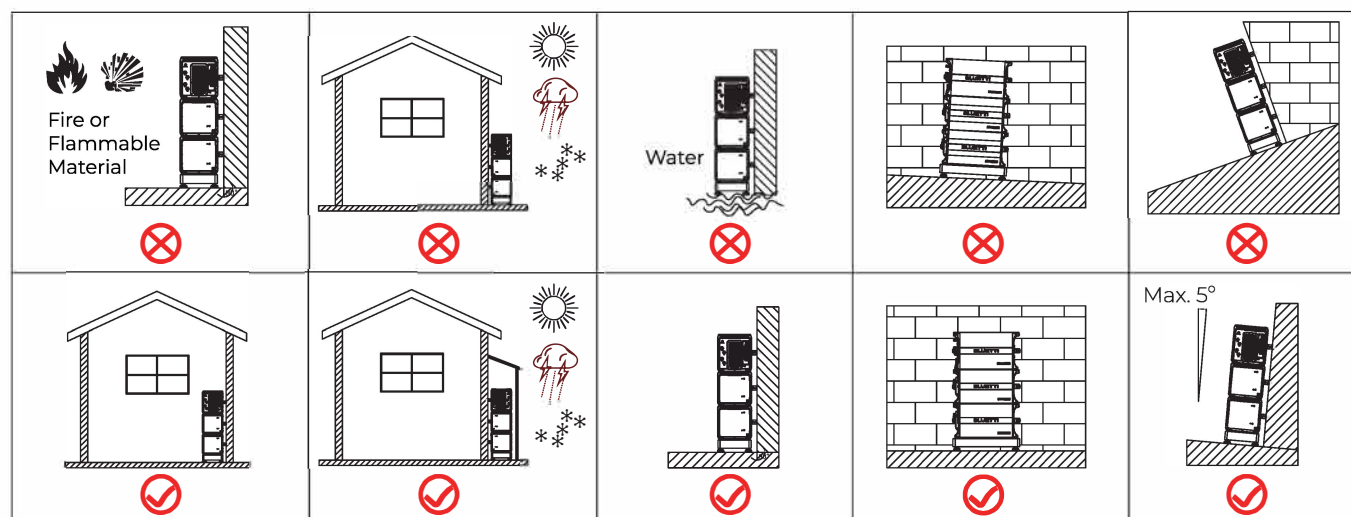


3.2 Installation requirements

Before Installation: Important Notes

- The installation must be performed by a licensed electrician. Improper installation may result in death or serious injury and property damage.
- Prepare necessary tools and accessories.
- Read the EP800 User Manual and Quick Start Guide.
- Recommended the **open circuit voltage** of solar system **is between 240V and 500V**.

Select an Appropriate Installation Location



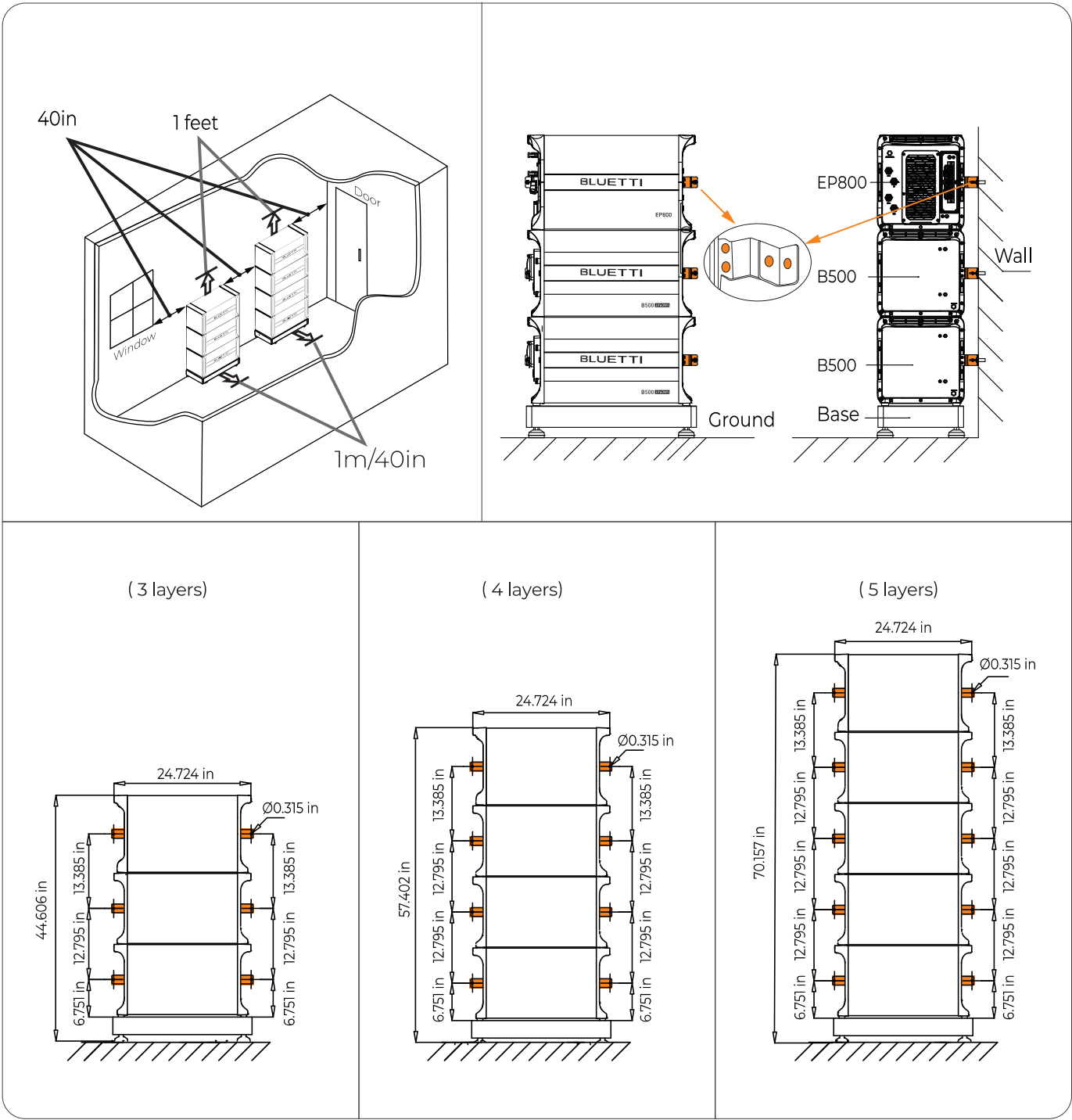
Operating Instructions

- If there's no power input and the SoC drops to 1%, switch off all battery main switches to prevent over-discharging. Only restart the system when recharging from the grid.
- Charge the batteries when the SoC is below 5% in time and maintain it at least at 5% for continuous operation.
- For long-term storage, charge the batteries to 40%-60% SoC and perform a full cycle at least every 3 months.

Temperature considerations:

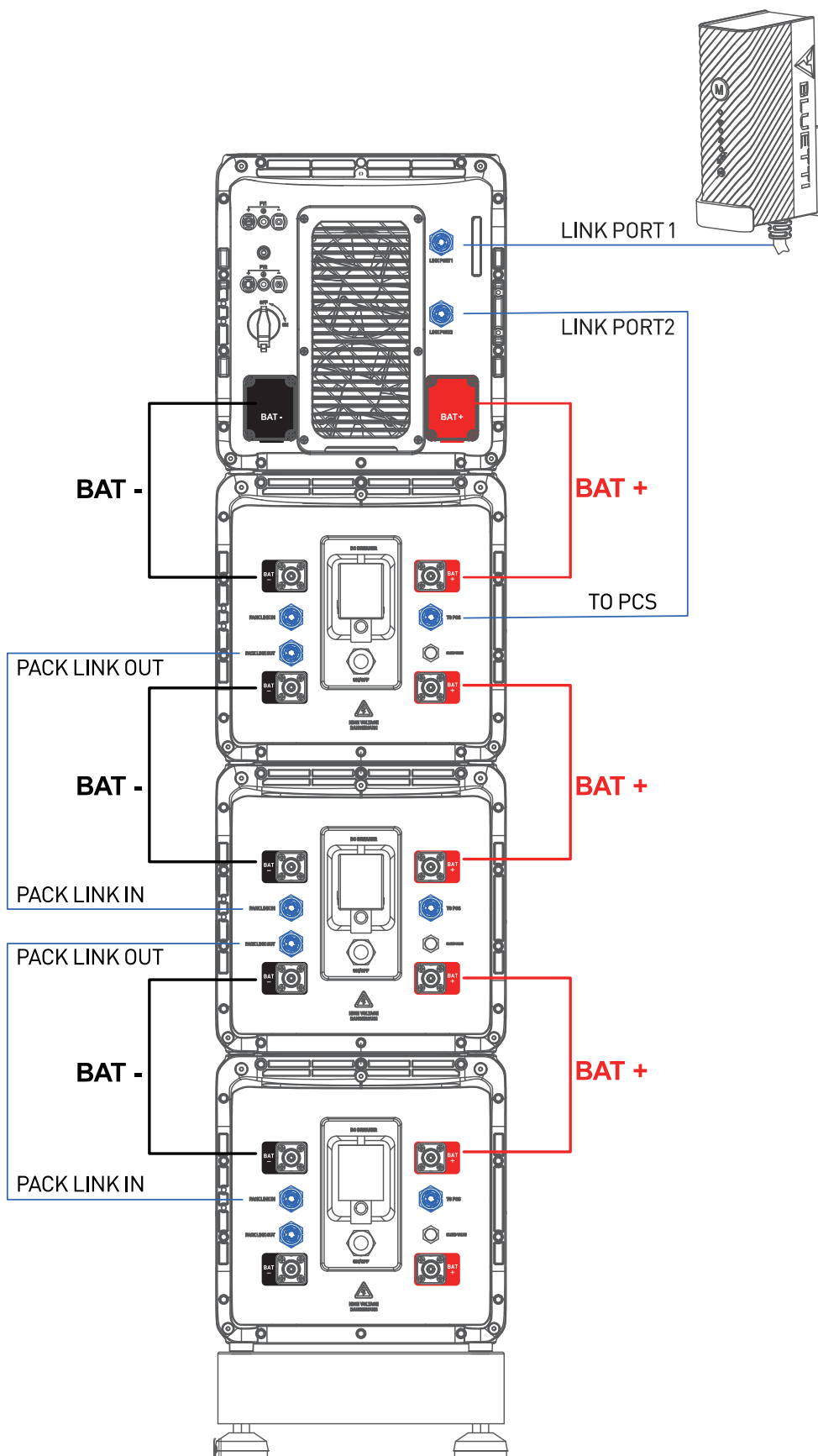
Operating Temperature	Charging	Off-grid: 0°C to 40°C / 32°F to 104°F On-grid: -20°C to 40°C / -4°F to 104°F
	Discharging	-20°C to 40°C / -4°F to 104°F
Storage Temperature	-20°C to 0°C / -4°F to 32°F (Fully cycle monthly) 0°C to 35°C / 32°F to 95°F (Fully cycle every 3 months)	

3.3 Wall mounting

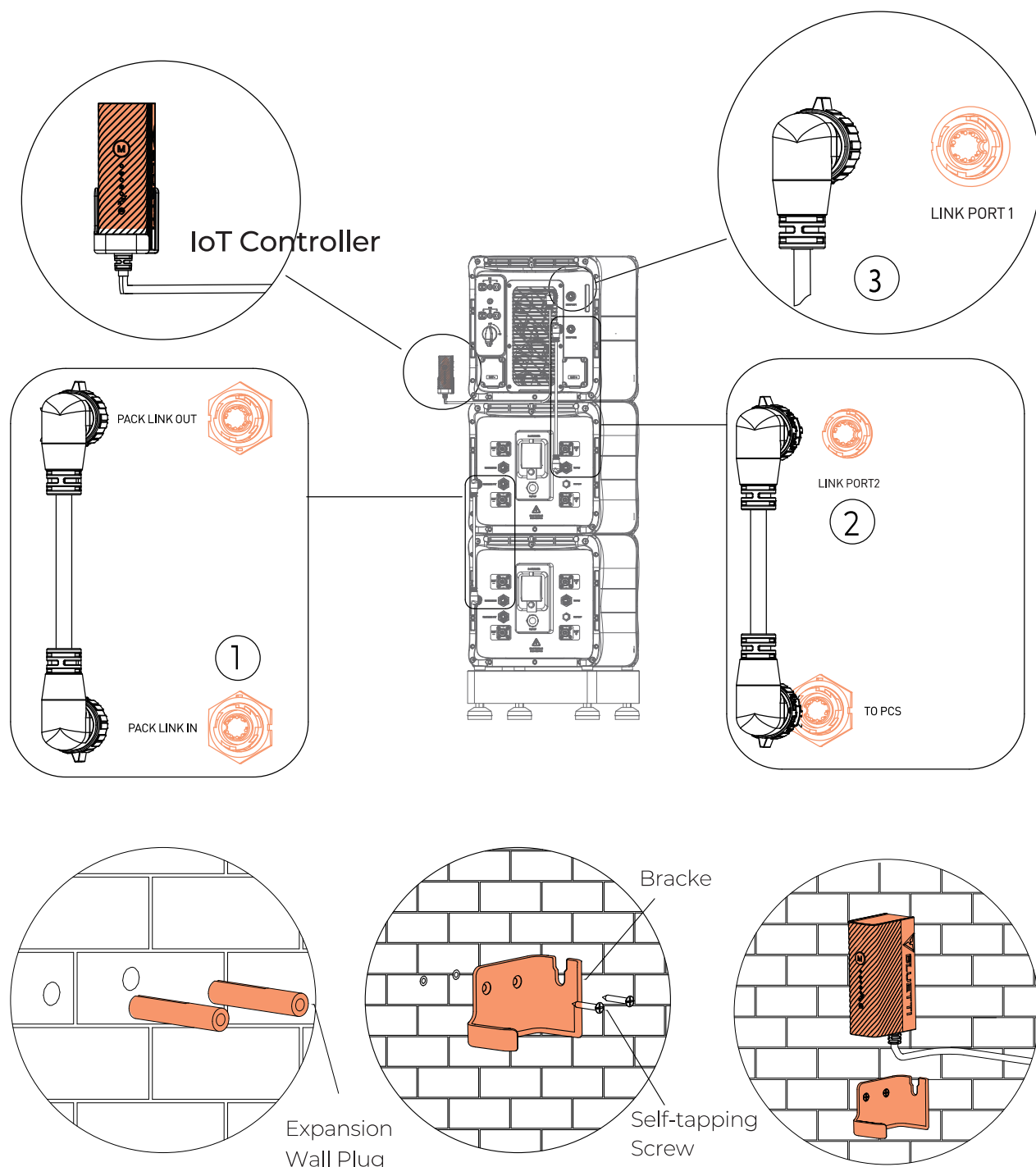


4. Electrical connection

4.1 Overview

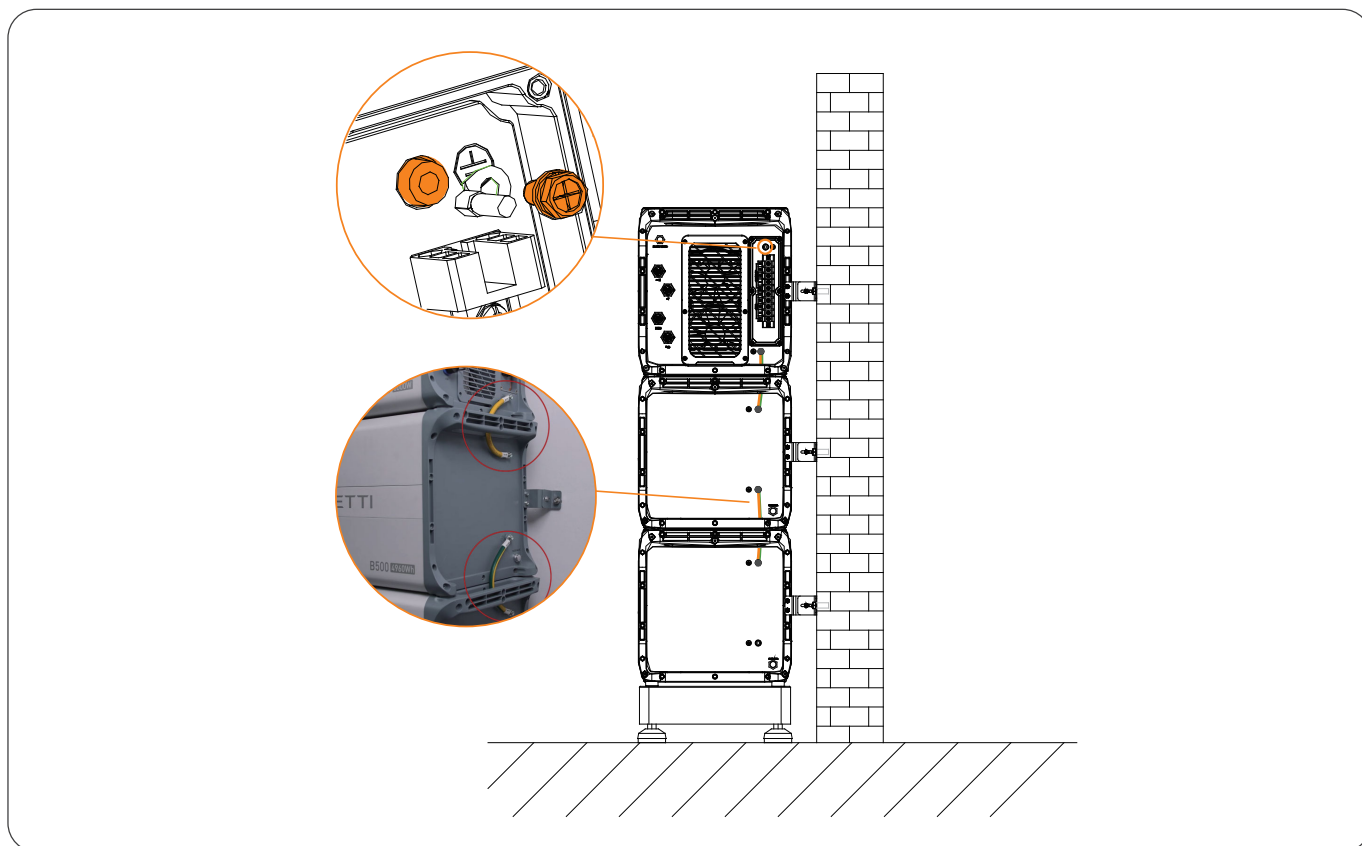


4.2 Connect the communication cable

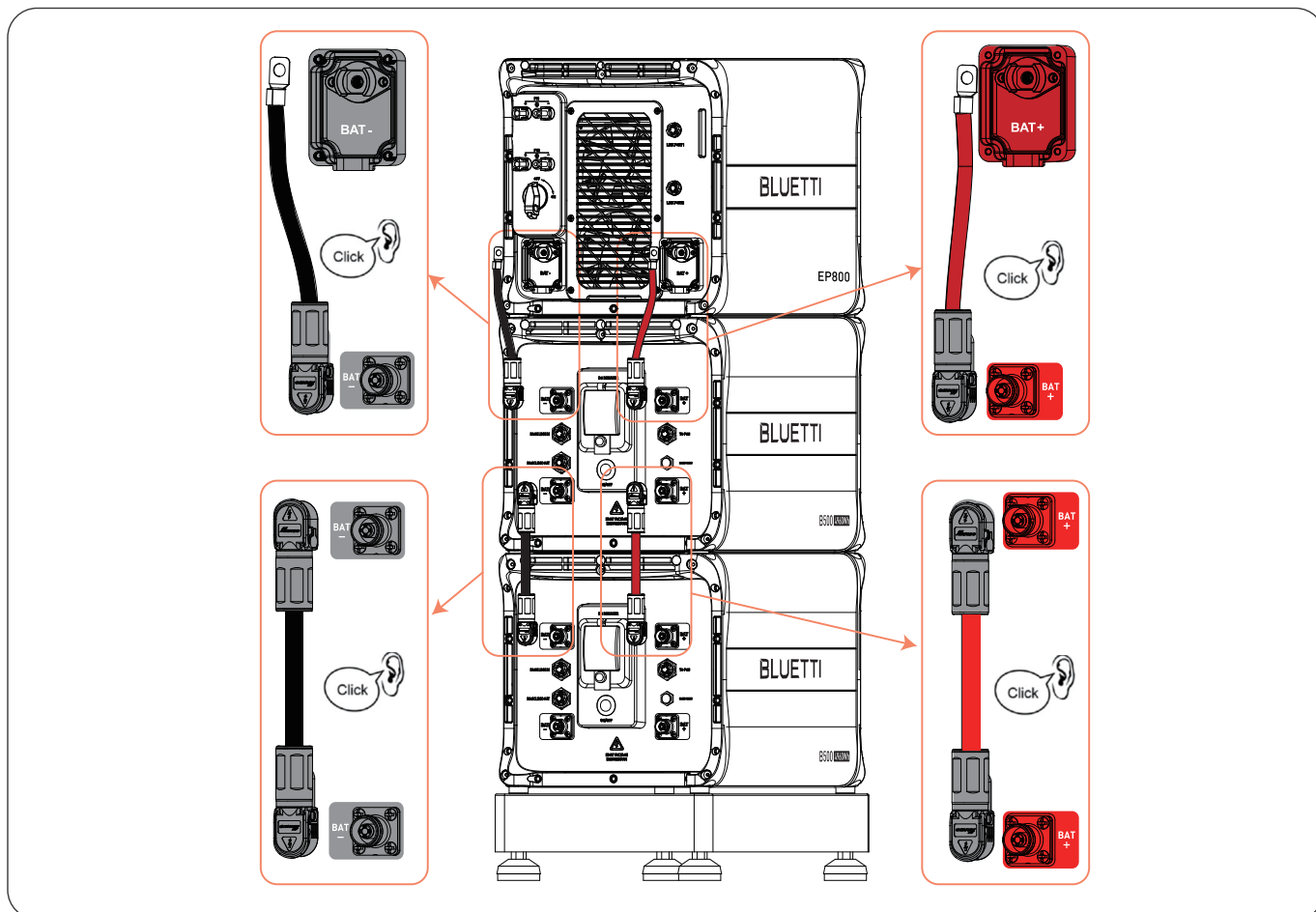


Note: Make sure the router is set to IEEE 802.11 b/g/n 2.4GHz.

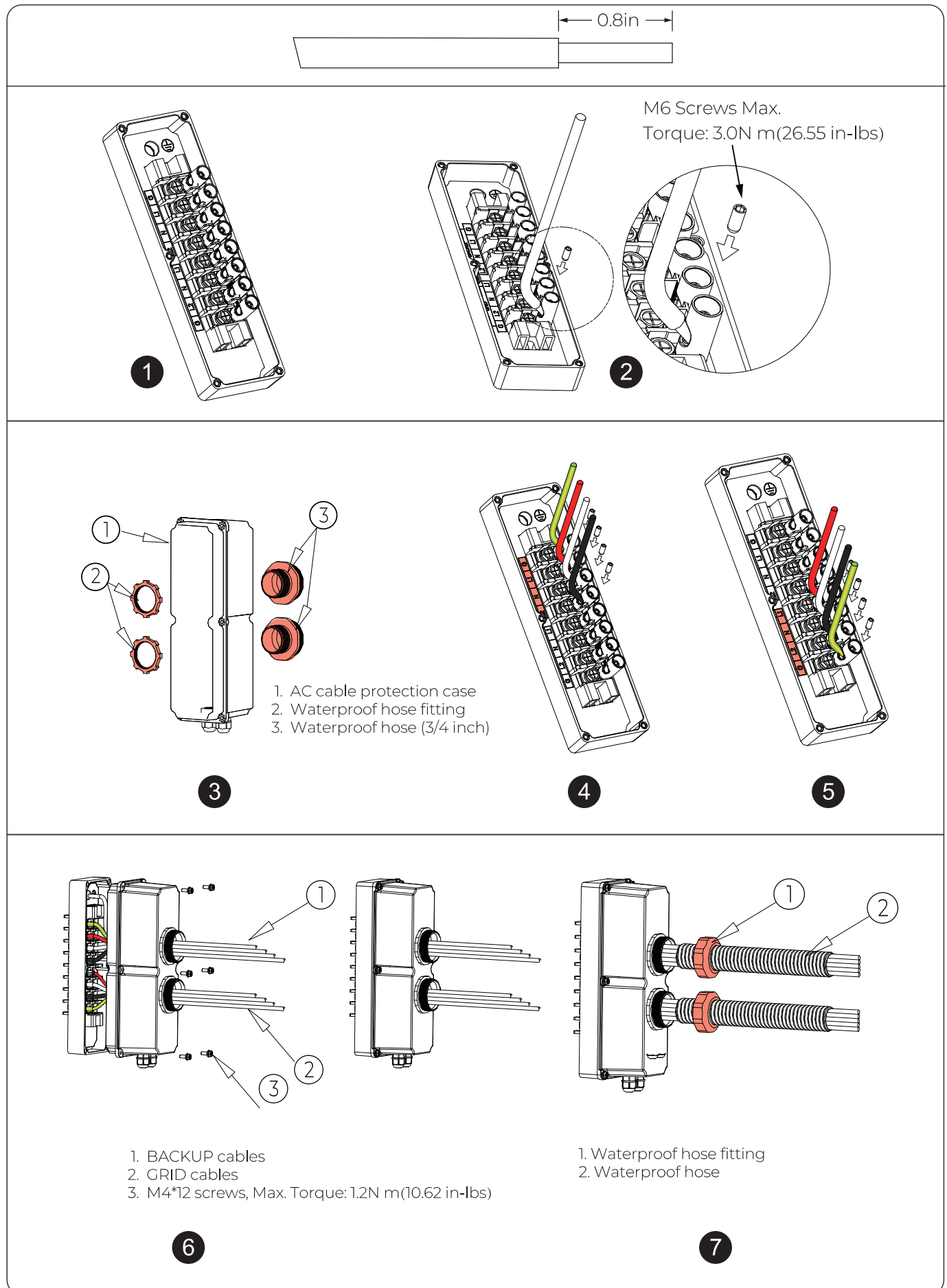
4.3 Connect the Grounding Cables



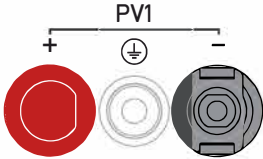
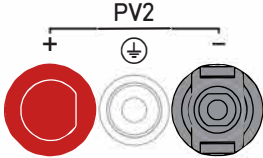
4.4 Connect the battery power cables

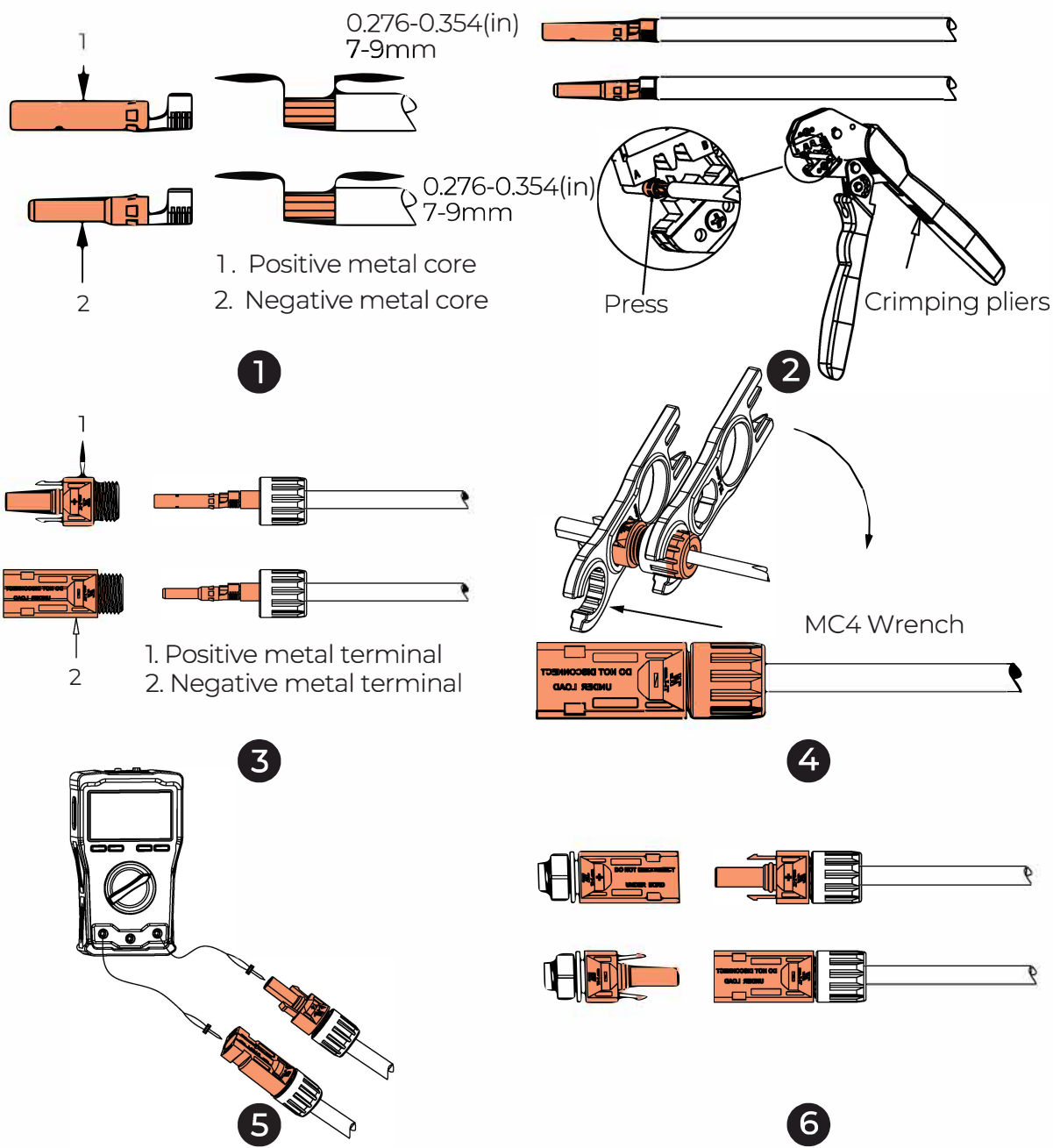


4.5 Connect the GRID and BACKUP cables



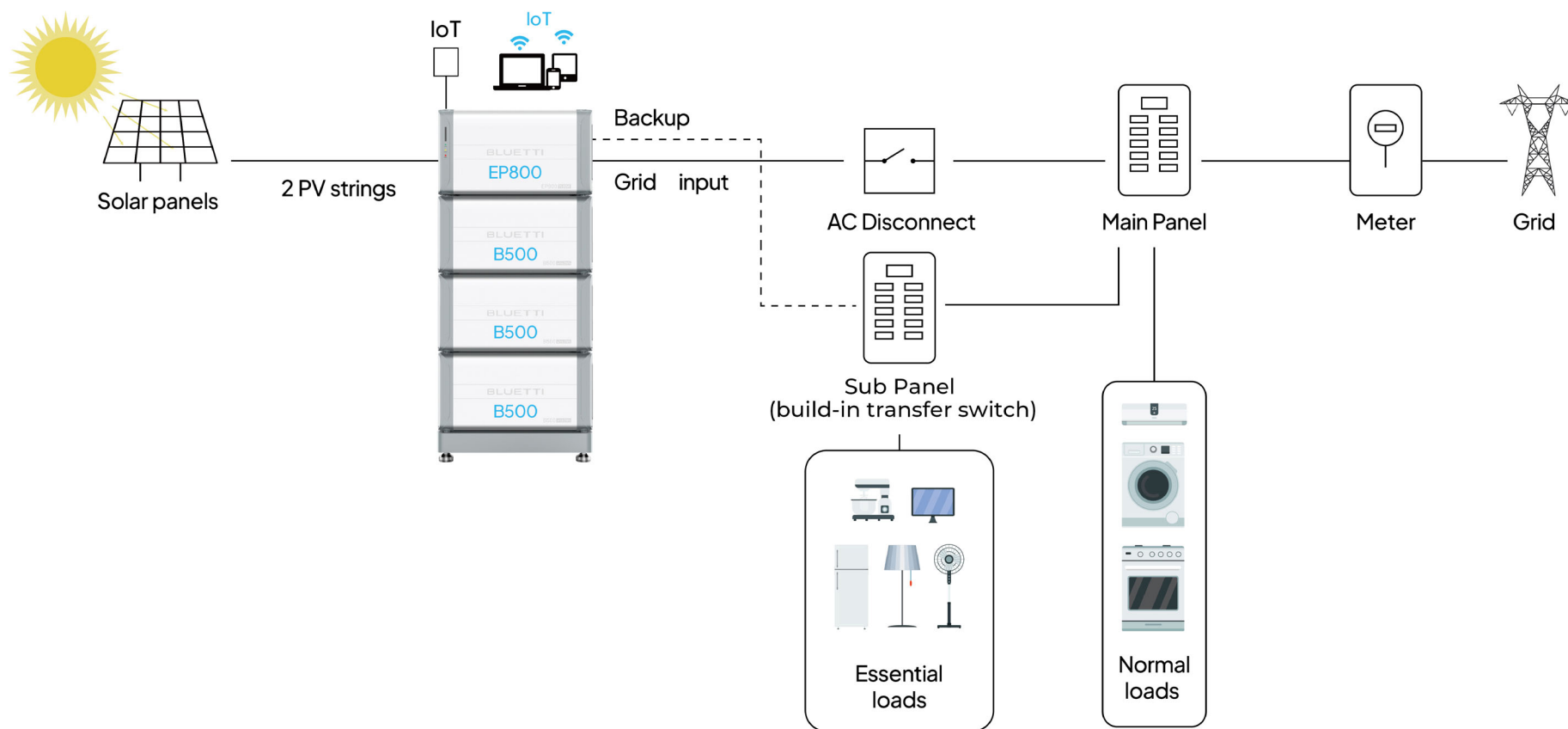
4.6 Connect PV cables

	PV1+: To solar panel positive PV1-: To solar panel negative PV1 PE: PV1 to solar panel ground	Conductor cross-sectional area: PV1 12AWG PV2 10AWG
	PV2+: To solar panel positive PV2-: To solar panel negative PV2 PE: PV2 to solar panel ground	



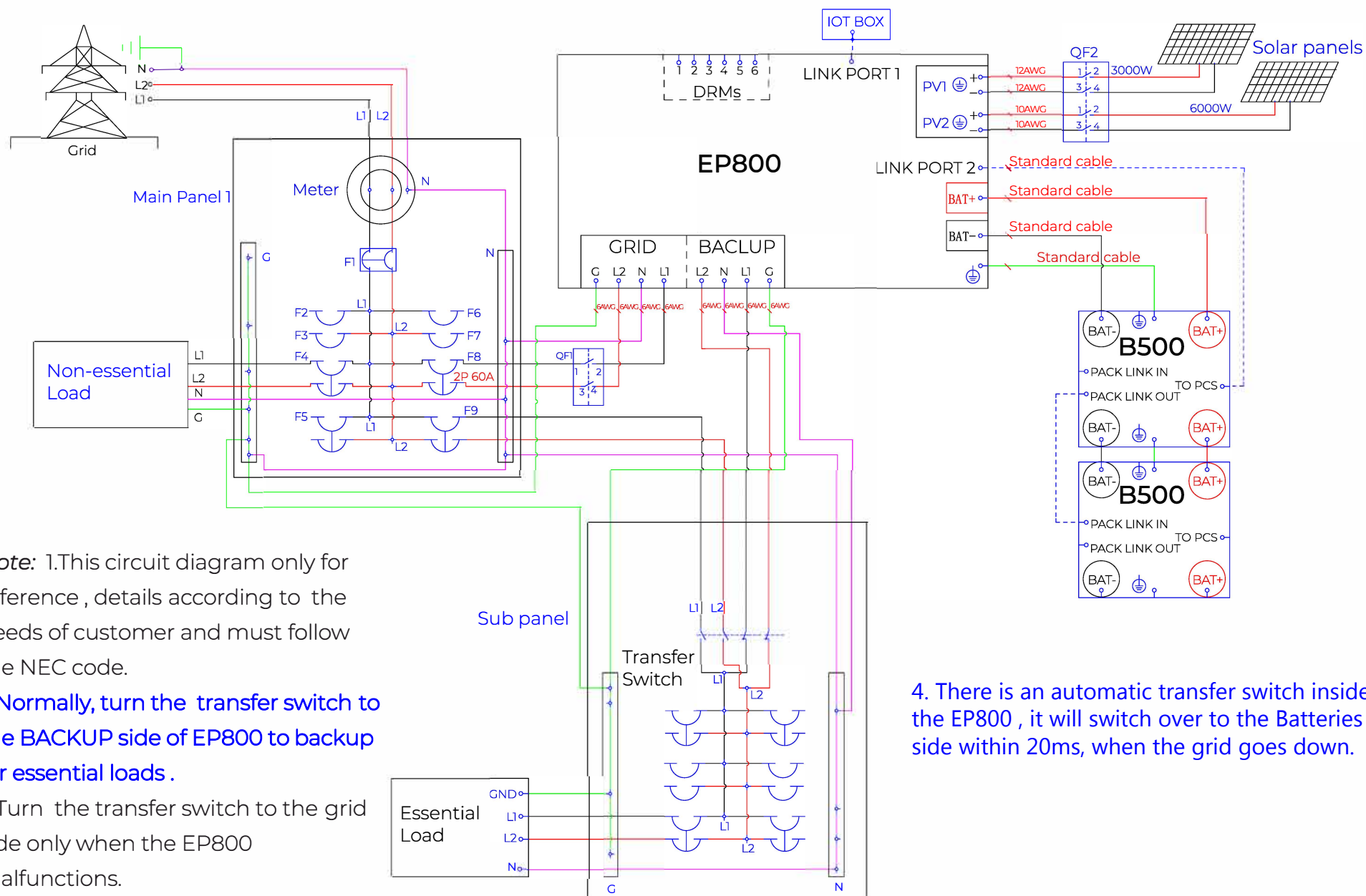
NOTE: Please check the **open circuit voltage** of PVarrays, which should be **between 240V and 500V**.

Solution 1: For new installation solar panels

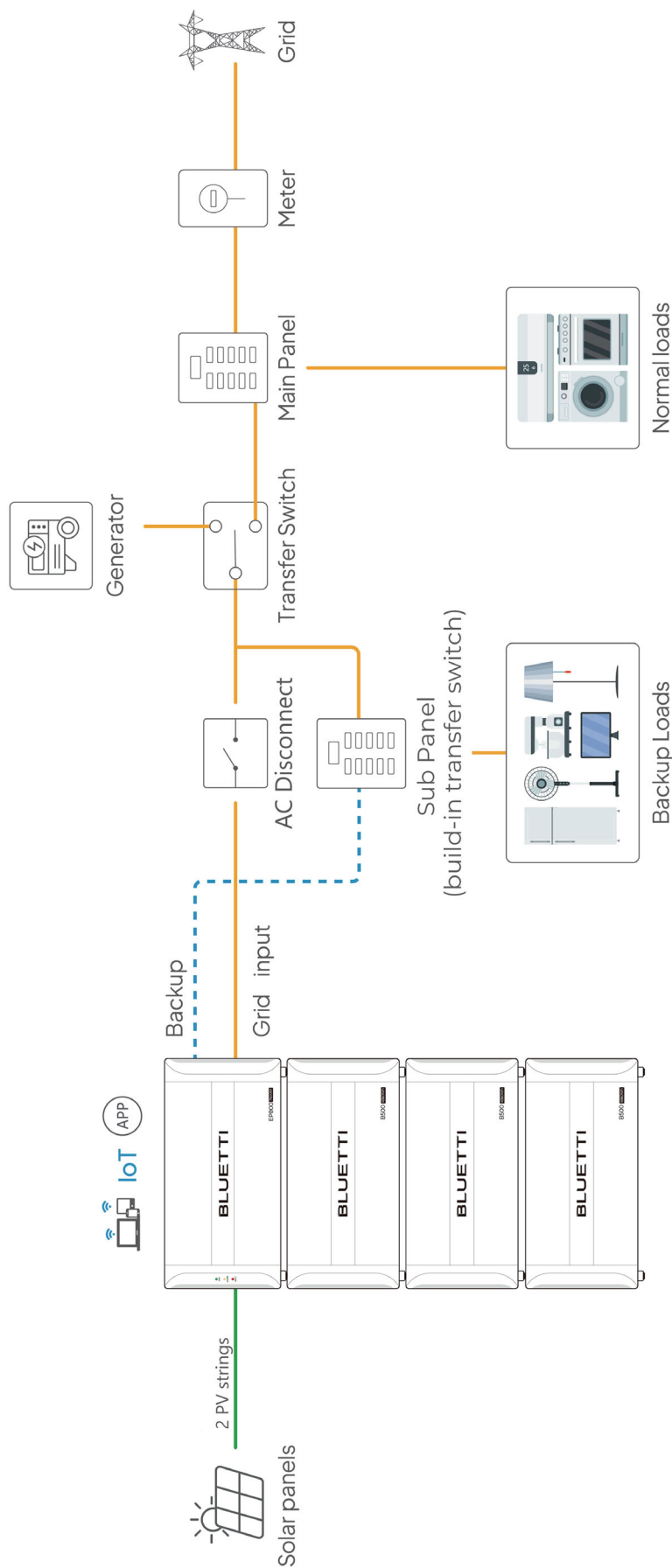


Note: This circuit diagram is for reference only; details are subject to customer requirements and must follow NEC specifications.

Solution 1: For new installation solar panels



Solution 2: Charging from generator and new solar PV system



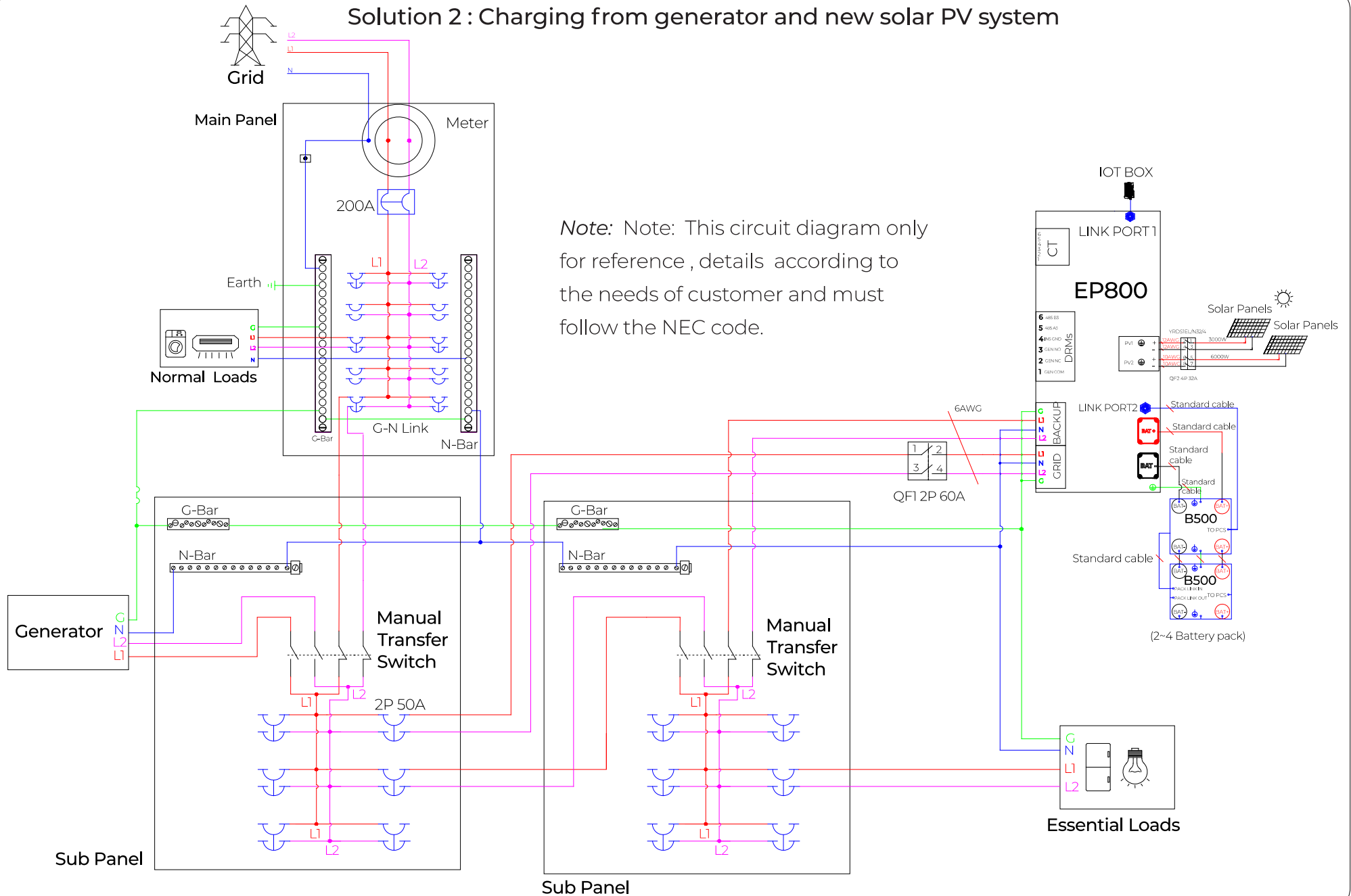
Note: Not all generators are compatible with EP800 , please contact BLUETTI before installation.

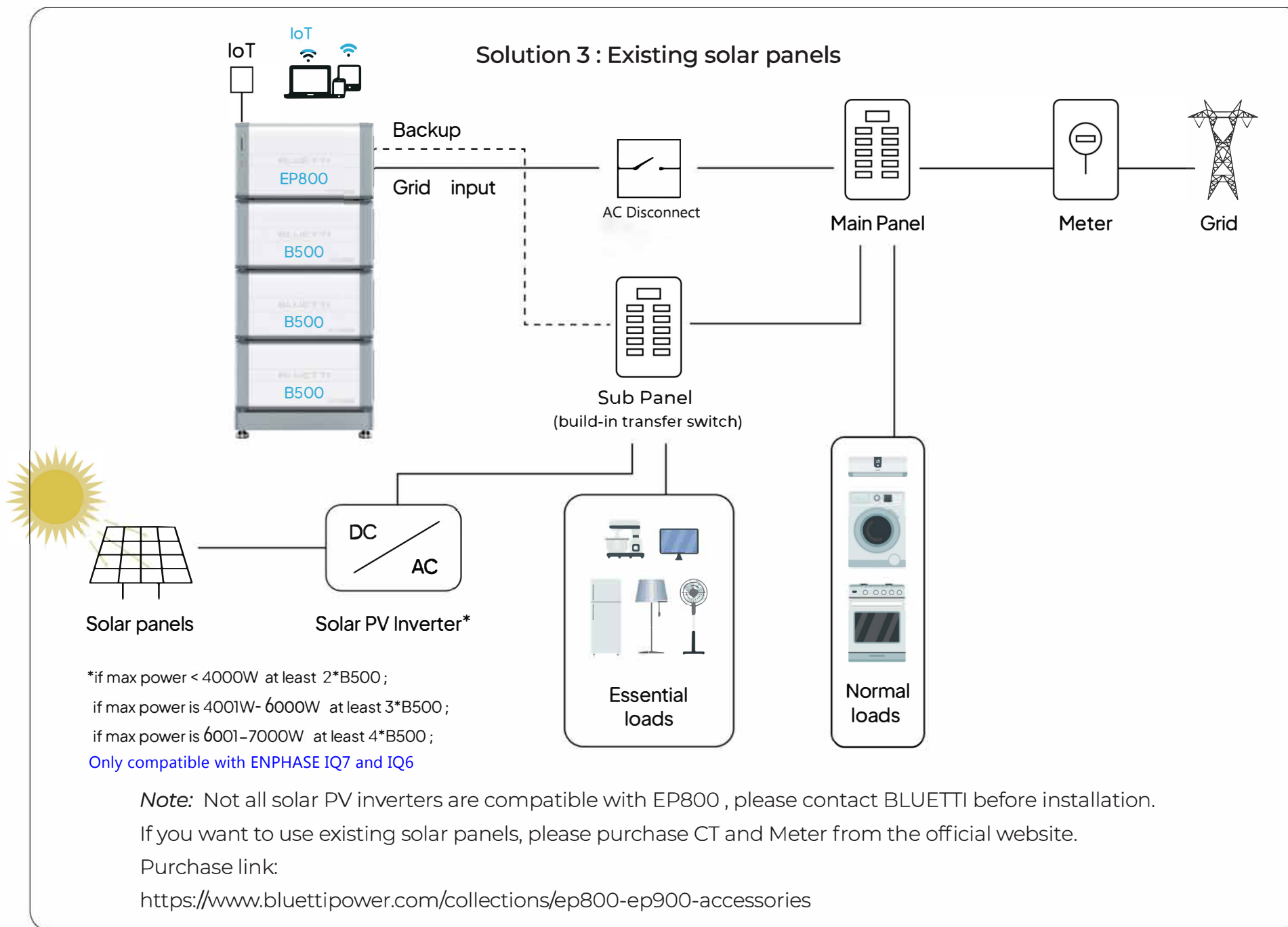
If you want to use a generator for charging, please purchase a Sub Panel with a transfer switch from the official website.

Purchase link:

<https://www.bluettipower.com/collections/ep800-ep900-accessories>

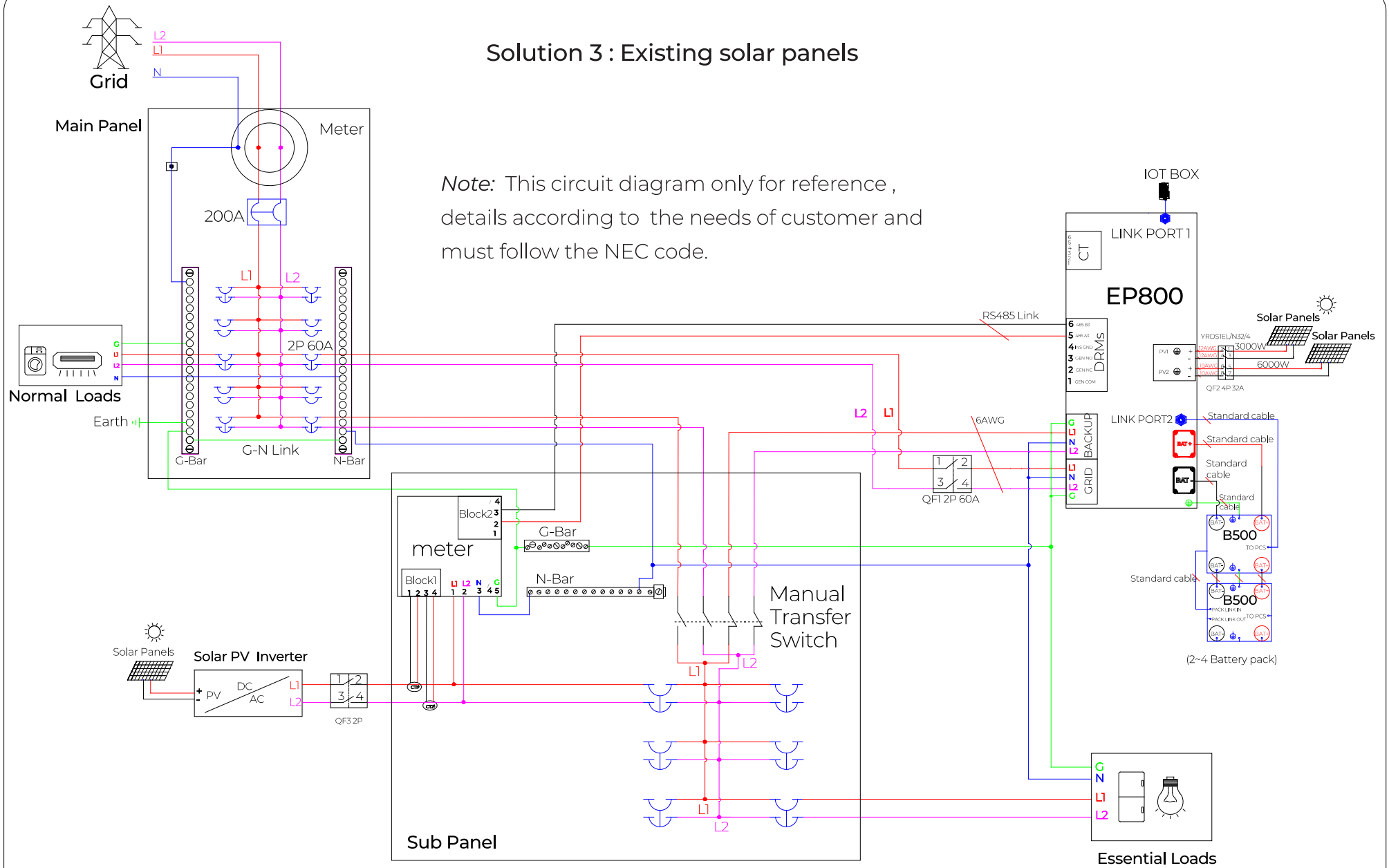
Solution 2 : Charging from generator and new solar PV system





Solution 3 : Existing solar panels

Note: This circuit diagram only for reference , details according to the needs of customer and must follow the NEC code.



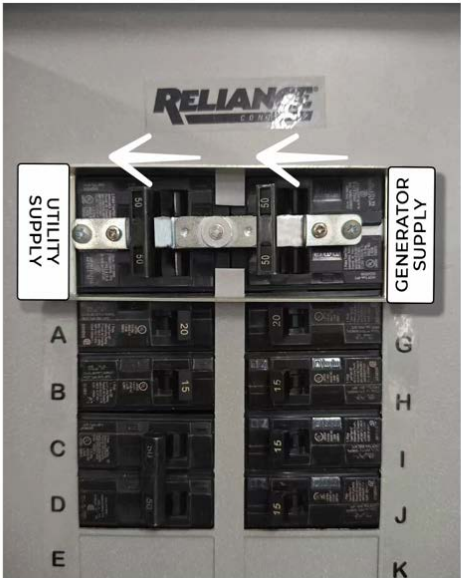
5. Power on

- Step 1 Switch on the DC circuit breakers on EP800.
- Step 2 Switch on the DC circuit breakers on B500 battery packs. Press and hold the power button of any battery pack for about 3 seconds, and the green indicator on the button will light up.
- Step 3 About 40 seconds later, the indicator on EP800 will stay green.
- Step 4 Switch on the AC circuit breakers connected to the EP800 GRID terminal.
- Step 5 Power on the system via BLUETTI app.
- Step 6 Check the voltage of BACKUP terminal and turn on the breakers of generator supply.
- Step 7 Switch on the AC circuit breakers connected to the EP800 load port.
- Step 8 Check the EP800 system operation in the App.



Indicator

System Status \ LED	LED		
	Green	Yellow	Red
Run	ON	OFF	OFF
Run +Alarm	ON	ON	OFF
Fault	OFF	OFF	ON
Alarm and fault	OFF	ON	ON



When EP800 used for the BACKUP SUPPLY. Turn on the "GENERATOR SUPPLY" side.



For more information, please visit:

Web: <https://www.bluettipower.com>



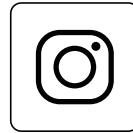
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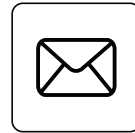
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service@
bluettipower.com

SHENZHEN POWEROAK NEWENER CO., LTD.

Add: F19, BLD No.1, Kaidaer, Tongsha Rd No.168, Xili Street,
Nanshan, Shenzhen, China

USA Company

Company: BLUETTI POWEROAK INC
Add: 6185 S VALLEY VIEW BLVD STE D LAS VEGAS
NEVADA 89118 United States

Customer Service

Tel: 800-200-2980 (Monday to Sunday 9:00-17:00)
Email: sale@bluettipower.com (Pre-sales),
service@bluettipower.com (After-sales)



Just Power On