

BLUETTI EP900

Quick Guide V2.1

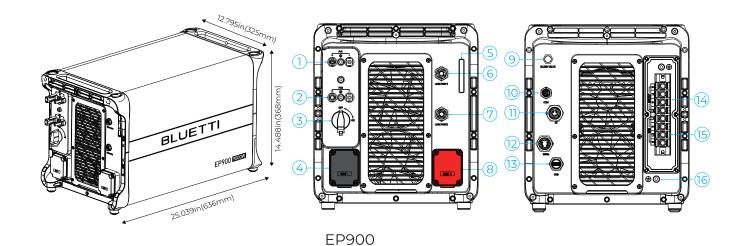
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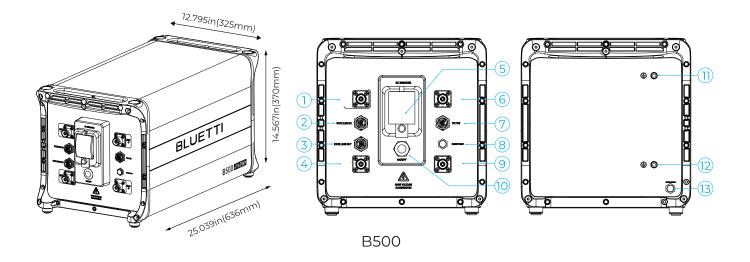
1. Special tools and parts need before installation for EP900

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 PROPERTY OF THE PROPERTY O	The safety switch is connect- ed between the main panel to the EP900 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 EP900 backup teminal or grid teminal. 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



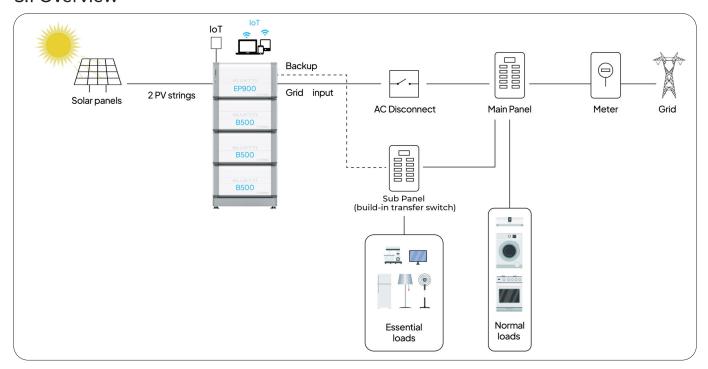
1	PV input 1	5	LED indicator	9	Bleed valve	13	USB port
2	PV input 2	6	loT signal port (Link Port 1)	10	COM Port (For grid communication module)	14	BACKUP Terminal
3	DC switch	7	Battery signal port (Link Port 2)	77	СТ	15	GRID Terminal
4	BAT- terminal	8	BAT+ terminal	12	DRMs port (For generator & meter)	16	GND Terminal (Grounding)



7	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

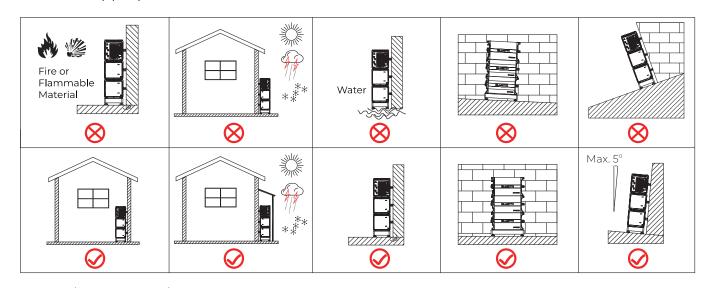


3.2 Installation requirements

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 EP900 User Manual and Quick Start Guide.
- · Recommended the open circuit voltage of solar system is between 240V and 500V.

Select an Appropriate Installation Location



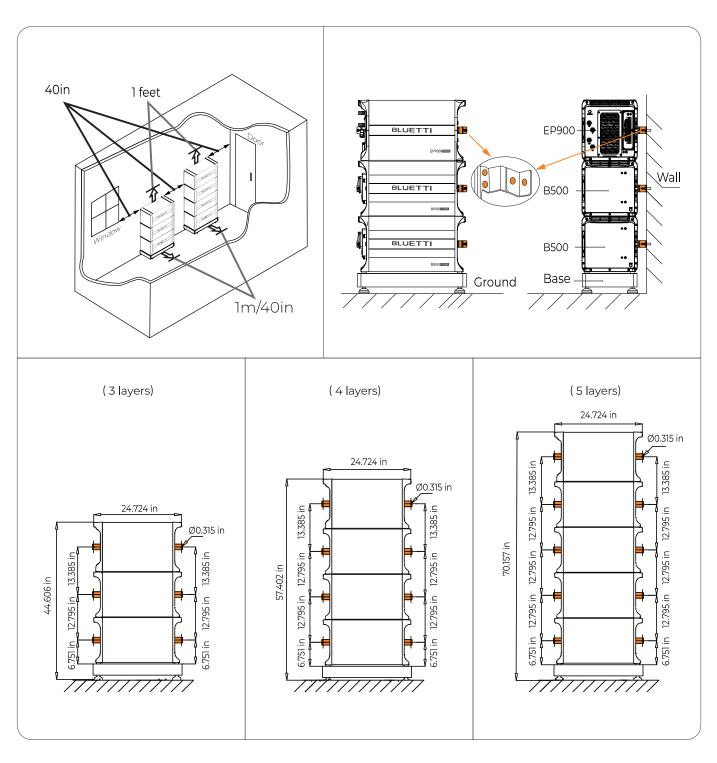
Operating Instructions

- 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% 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:

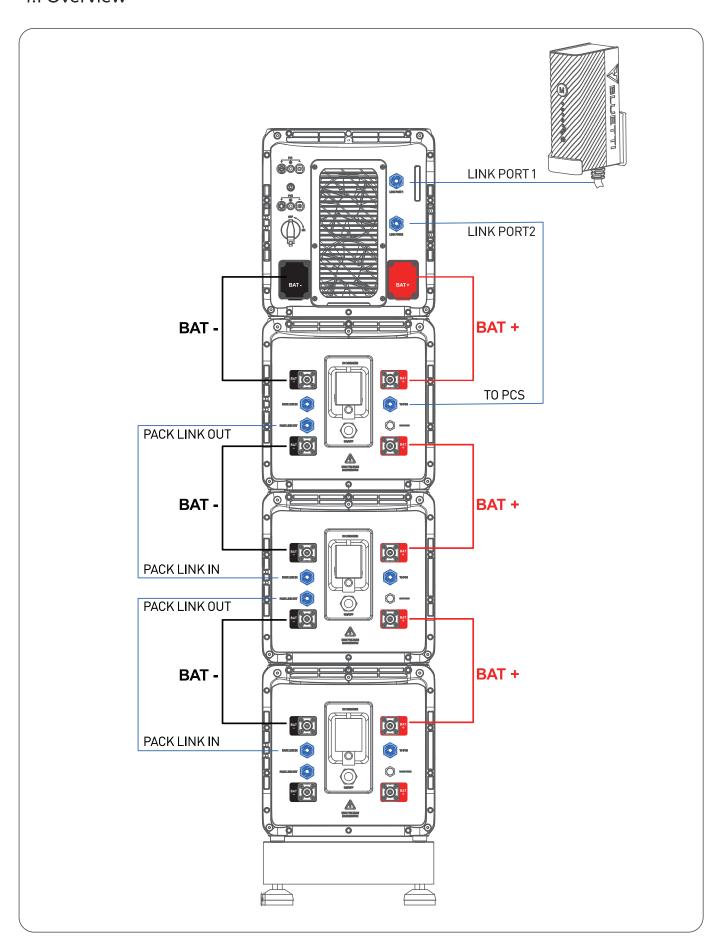
Operating Temperature	Charging	Off-grid: 0°C to 40°C / 32°F to 104°F On-grid: -20°C to 40°C / -4°F to 104°F		
	Discharging	-20°C to 40°C / -4°F to 104°F		
Storage Temperature	-20°C to 0°C / -4°F to 32°F (Fully cycle monthly) 0°C to 35°C / 32°F to 95°F (Fully cycle every 3 months)			

3.3 Wall mounting

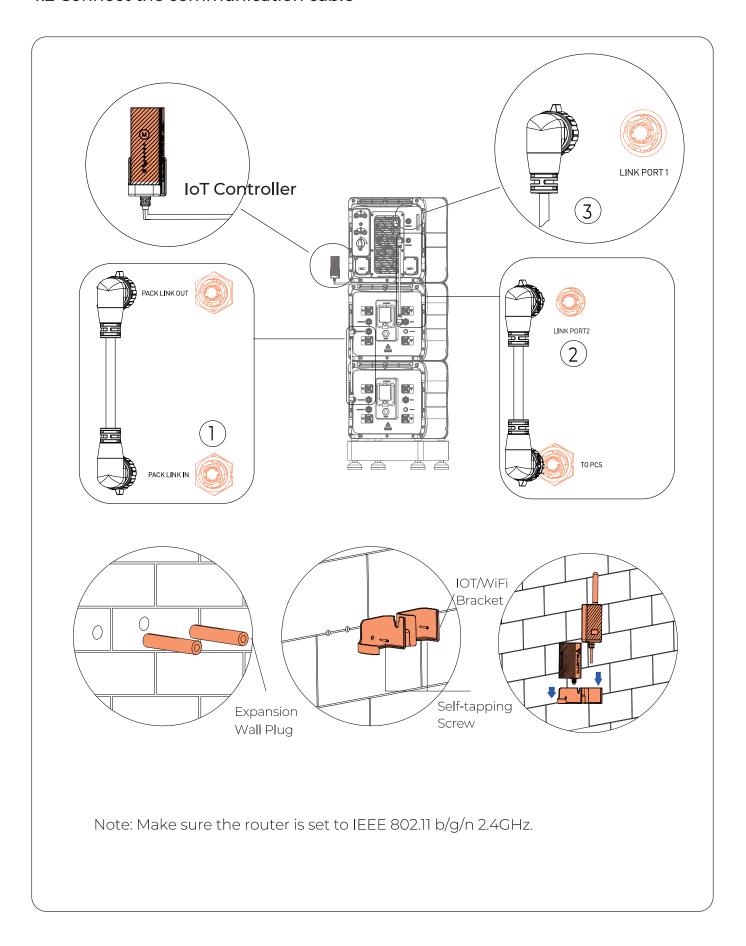


4. Electrical connection

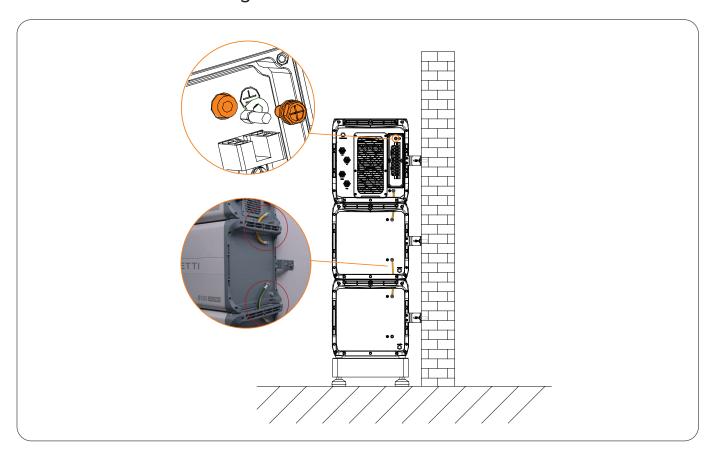
4.1 Overview



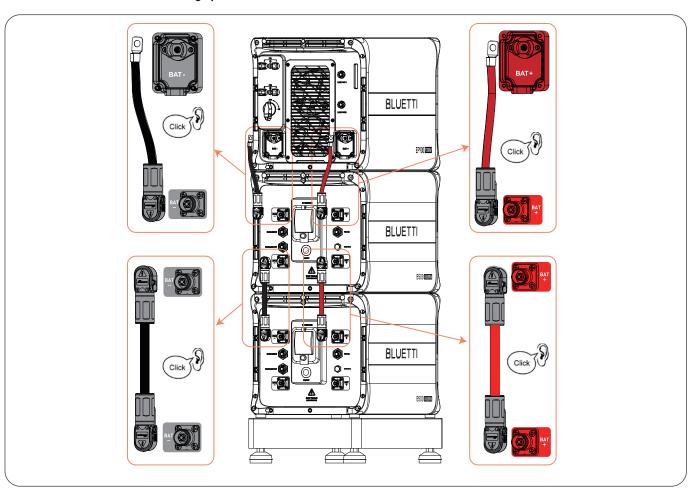
4.2 Connect the communication cable



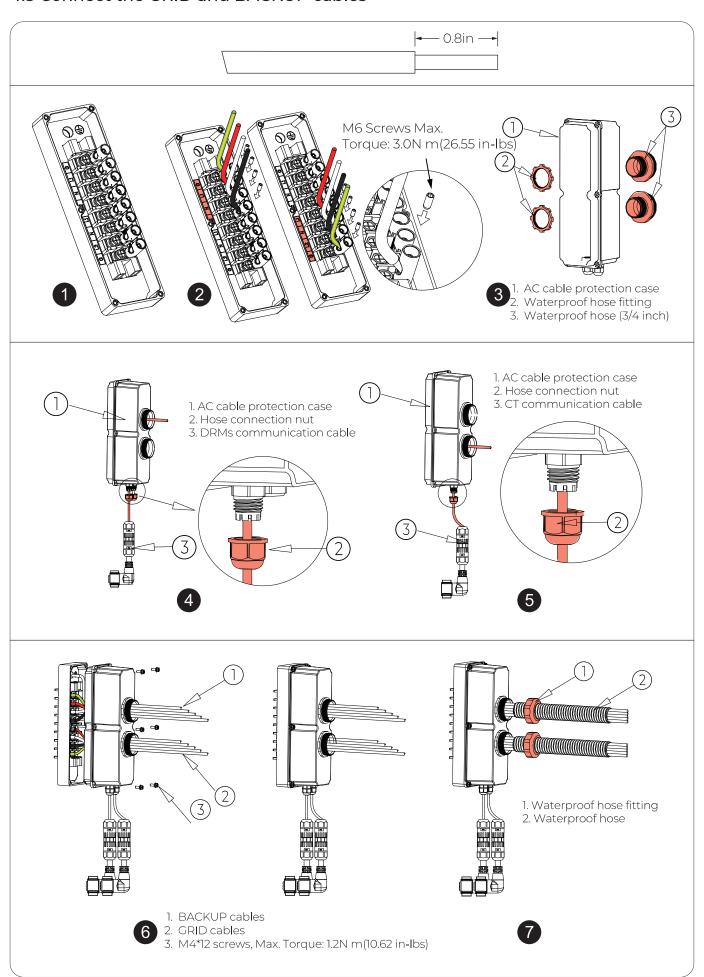
4.3 Connect the Grounding Cables



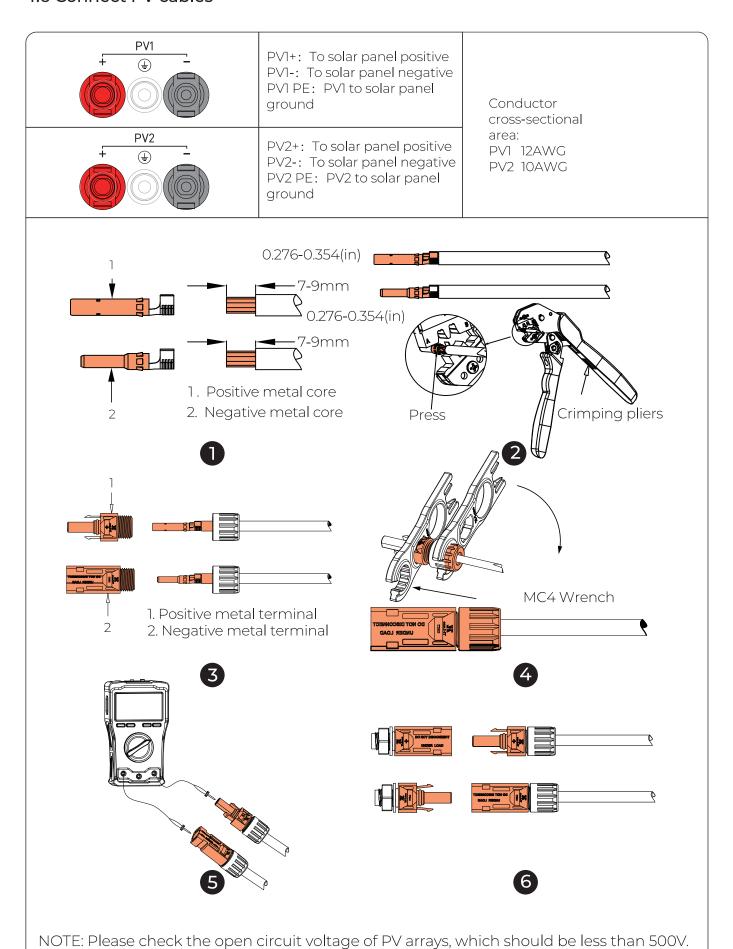
4.4 Connect the battery power cables



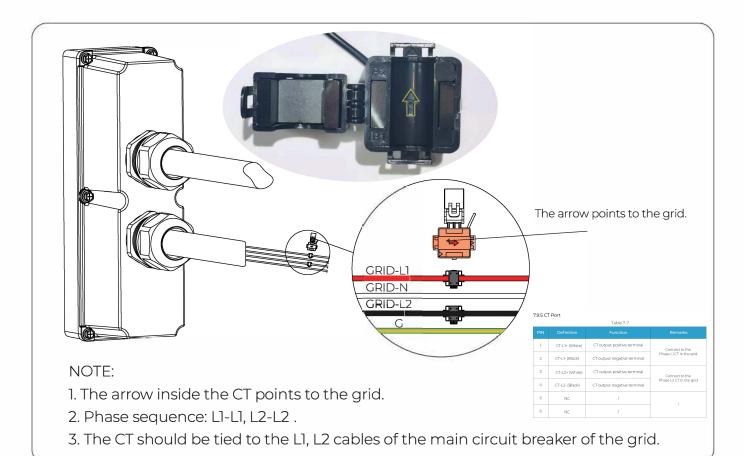
4.5 Connect the GRID and BACKUP cables



4.6 Connect PV cables



4.7 Attach the CT



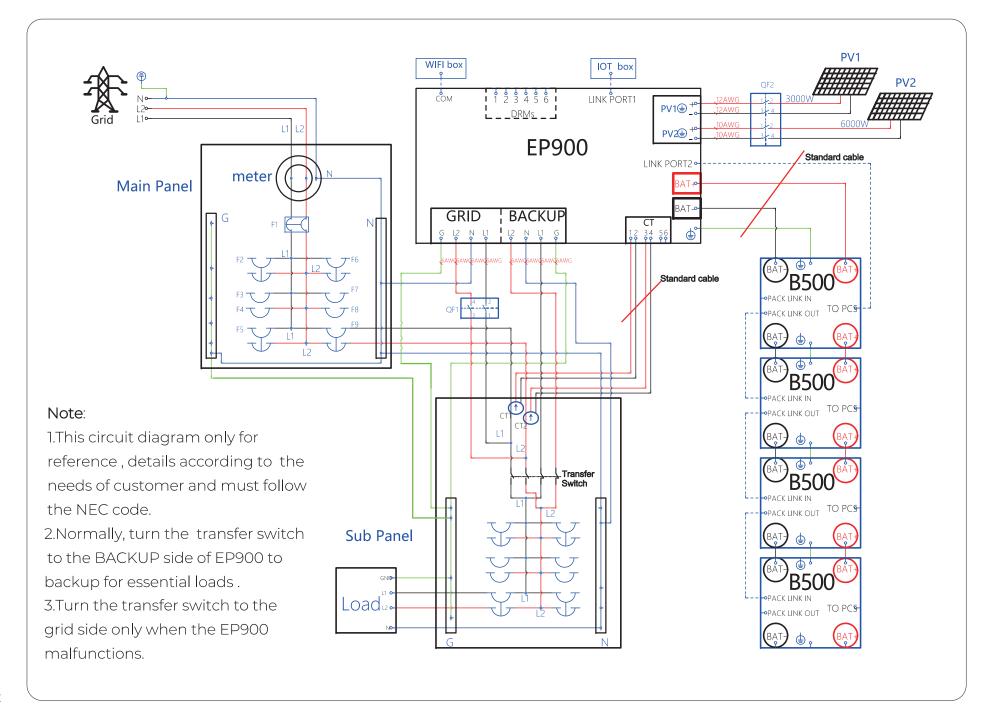
4.8 Install the Sub panel

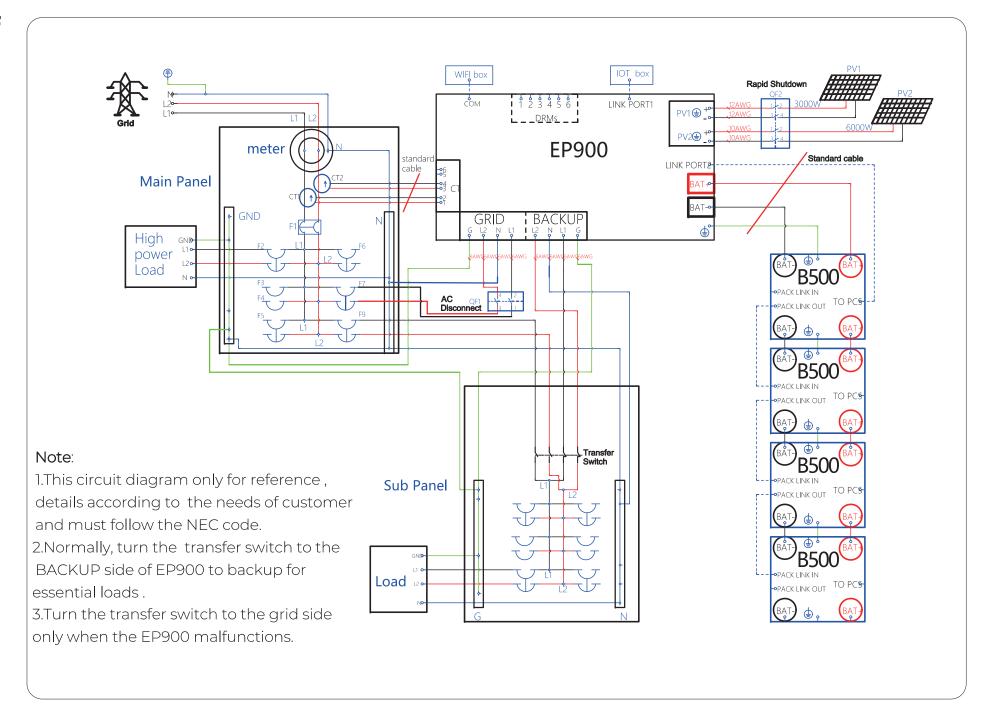


Connect EP900 ESS to the sub-panel to build a partial home backup system.

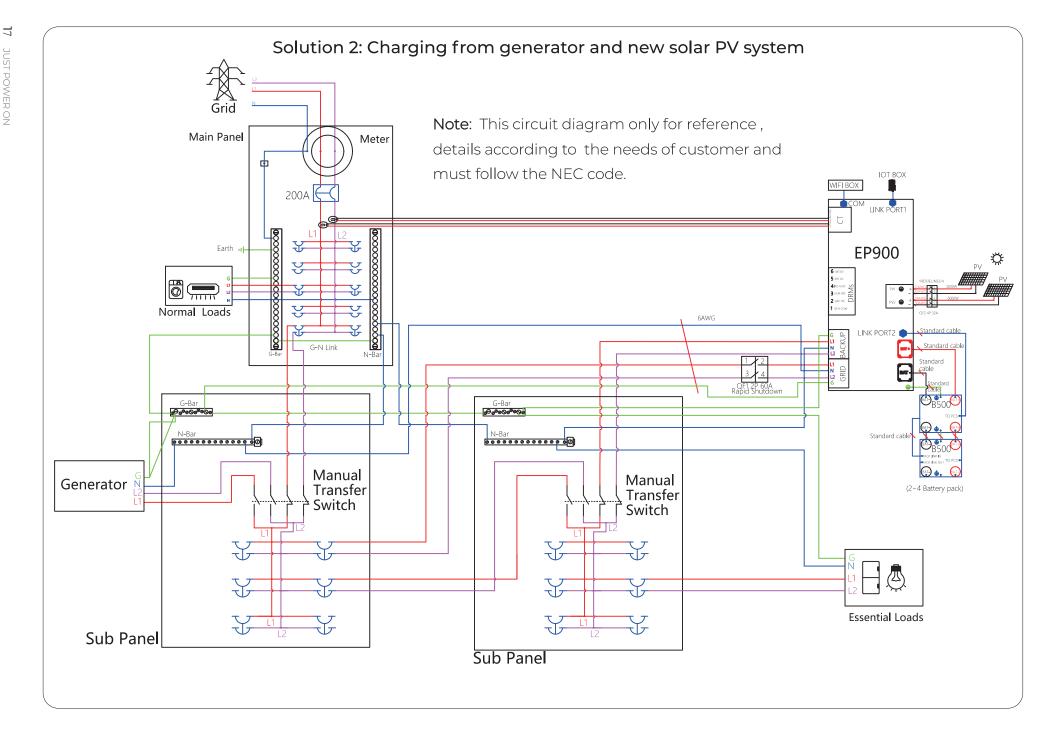
The Panel/Link TRK offers circuit breaker combinations of 50A utility and 50A generator.

- 1. Connect the Public Grid to utility input of the sub-panel.
- 2. Connect the EP900 BACKUP output to generator input of the sub-panel.
- 3. Connect the essential loads to the branch circuit breakers of the sub-panel.

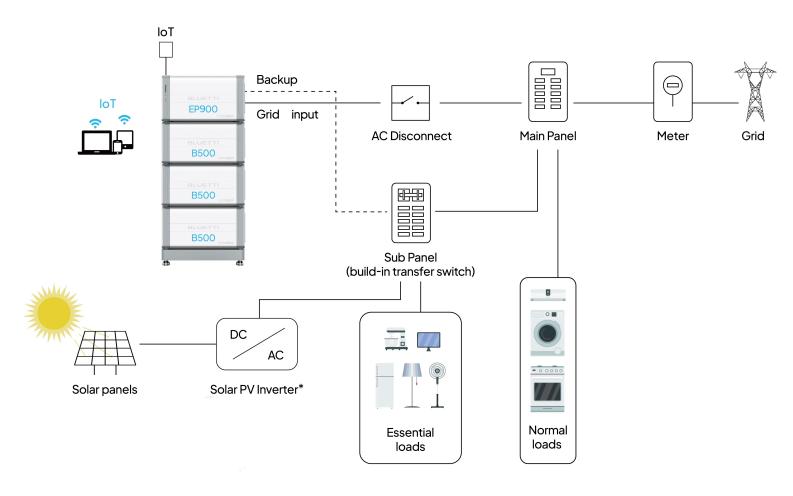




Note: Not all generators are compatible with EP900, please contact BLUETTI before installation. If you want to use a generator for charging, please purchase a Sub Panel with a transfer switch from the official website. Purchase link: https://wwww.bluettipower.com/collections/ep800-ep900-accessories

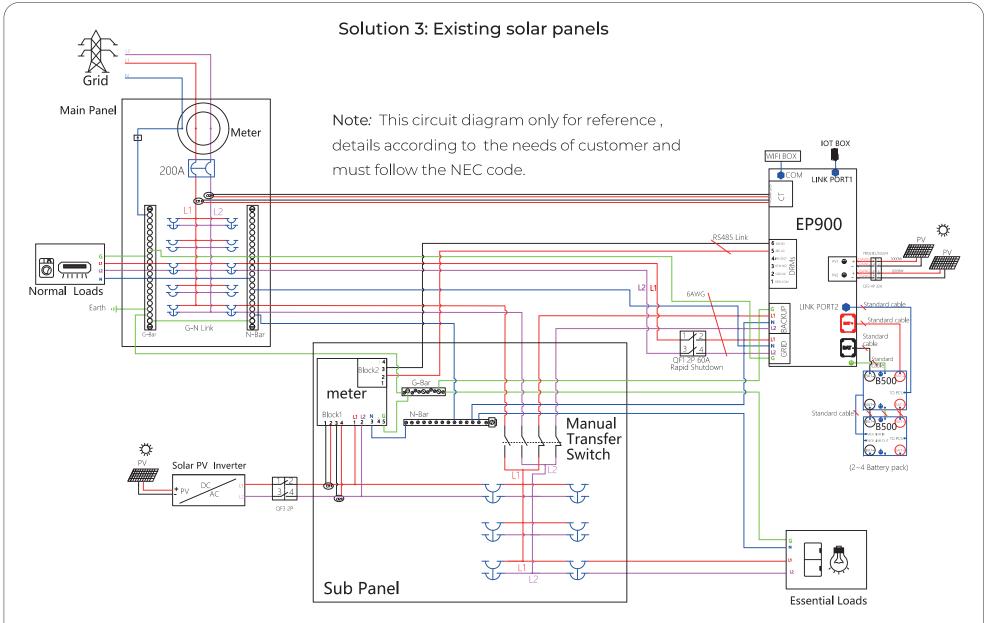


Solution 3: Existing solar panels



Note: For all solutions that include existing solar systems, We should note that changing the system may require updating the permits and designs with the utility company/local government. This can affect warranty + rebate cost (SGIP). Please contact installer for details.

Note: Not all solar PV inverters are compatible with EP900, please contact BLUETTI before installation if you want to use existing solar panels, please purchase CT and Meter from the official website. Purchase link: https/www.bluettipower.com/collections/ep800-ep900-accessories



Note: For all solutions that include existing solar systems, We should note that changing the system may require updating the permits and designs with the utility company/local government. This can affect warranty + rebate cost (SGIP). Please contact installer for details.

5. Power on

Step 1 Switch on the DC circuit breakers on EP900.

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 EP900 will stay green.

Step 4 Switch on the AC circuit breakers connected to the EP900 GRID terminal.

Step 5 Power on the system via BLUETTI app.

Step 6 Check the voltage of BACKUP terminal.

Step 7 Switch on the AC circuit breakers connected to the EP900 load port.

Step 8 Check the EP900 system operation in the App.



Indicator

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

For more information, please visit:

Web: https://www.bluettipower.com



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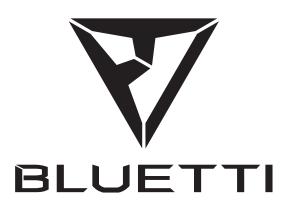
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Just Power On

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