

EP900

Third-party Photovoltaic Inverter Installation

V1.1



Thank You!

Thank you for making BLUETTI a part of your family.

From the very beginning, BLUETTI has tried to stay true to a sustainable future through green energy storage solutions while delivering an exceptional eco-friendly experience for our homes and our world.

That's why BLUETTI makes its presence in 100+ countries and is trusted by millions of customers across the globe.



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If you have any questions or concerns about this manual, please contact BLUETTI support for further assistance.

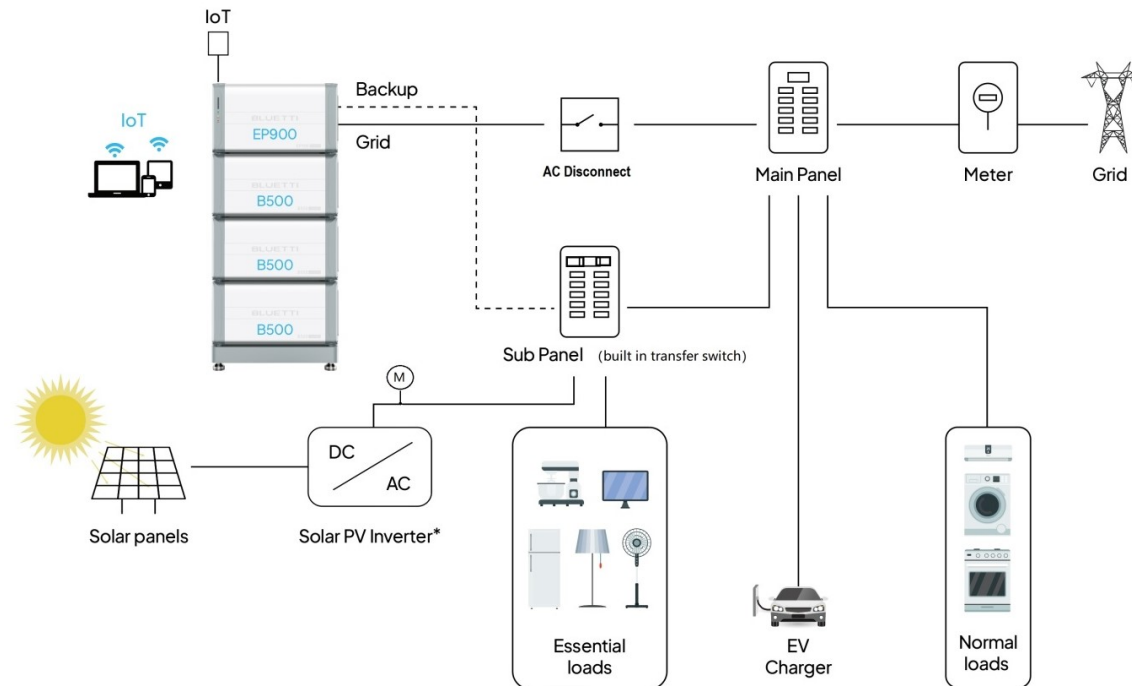
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Web: <https://www.bluettipower.com>

Key Features:

for existing solar panels , PV inverter connected to the sub panel to charge the batteries during grid outage.



if max power of PV inverter < 4000w at least 2*B500;

if max power of PV inverter is 4001w-6000w at least 3*B500;

if max power of PV inverter is 6001w-7000w at least 4*B500;

if max power of PV inverter is larger than 7000w, please contact BLUETTI.

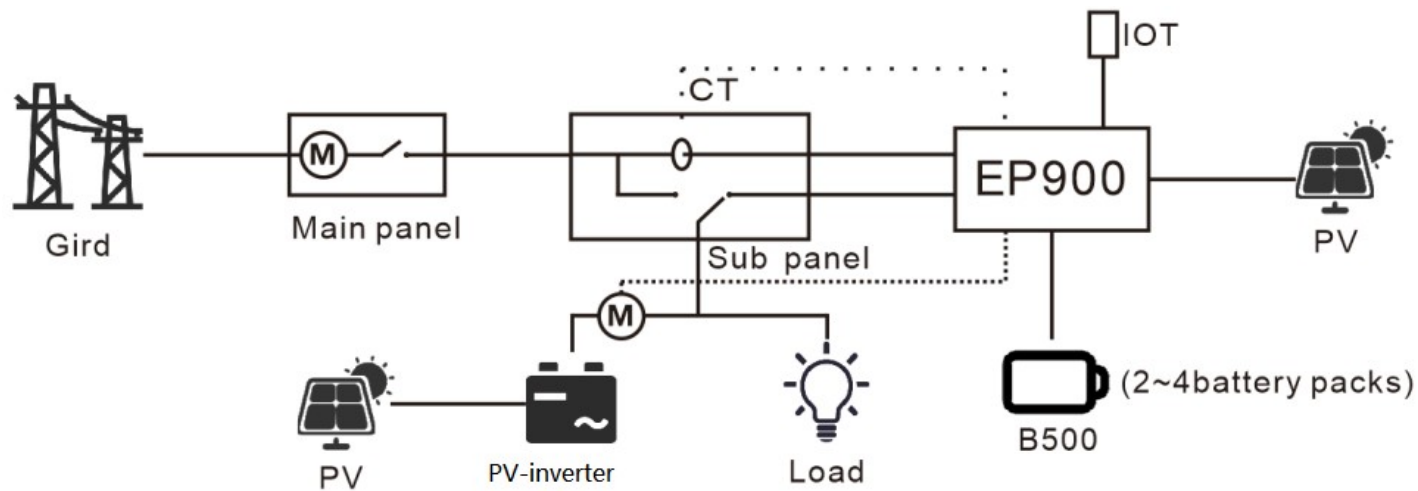
Note :

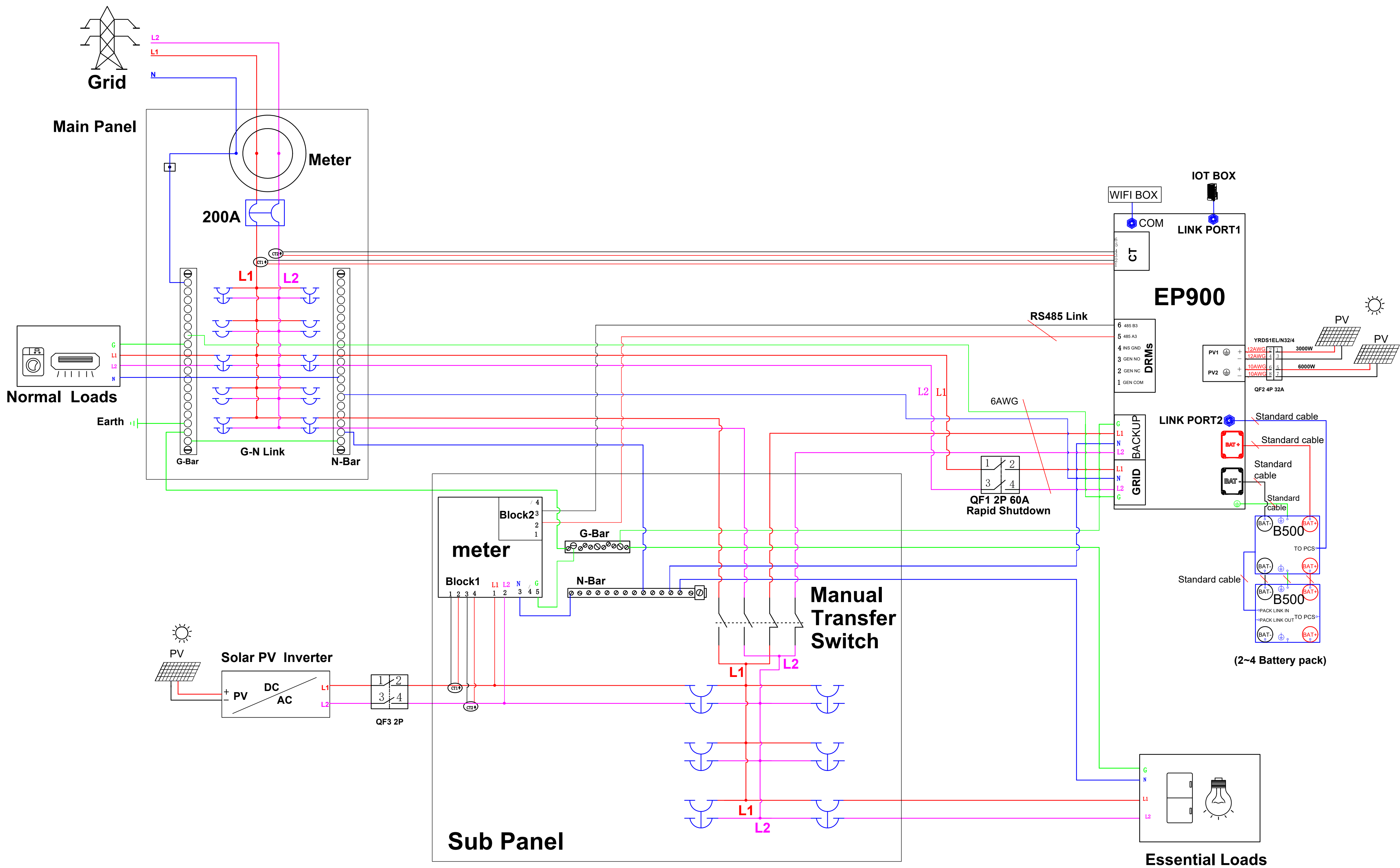
1. This solution used for customer who always suffer from more than 2 days blackout.
2. Solar system is owned by the homeowner and there is no contract with electricity company.
3. Currently , support Enphase Micro inverters IQ7 and IQ6, Solaredge SE5000H, SE6000H, SE7600H,SE10000H, SMA SUNNY BOY SB 6000TL-US / 7000TL-US / 8000TL-US /9000TL-US 240V
4. It is necessary to install a sub panel which is from BLUETTI.
Brand : Reliance , 50A split phase
5. 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).

- Use only compatible:

SolarEdge	SE3000H, SE3800H, SE0500H, SE6000H, SE7600H, SE10000H
Enphase	only IQ7 /IQ6
SMA	SB 6000TL-US / 7000TL-US / 8000TL-US /9000TL-US 240V

Electrical Diagrams



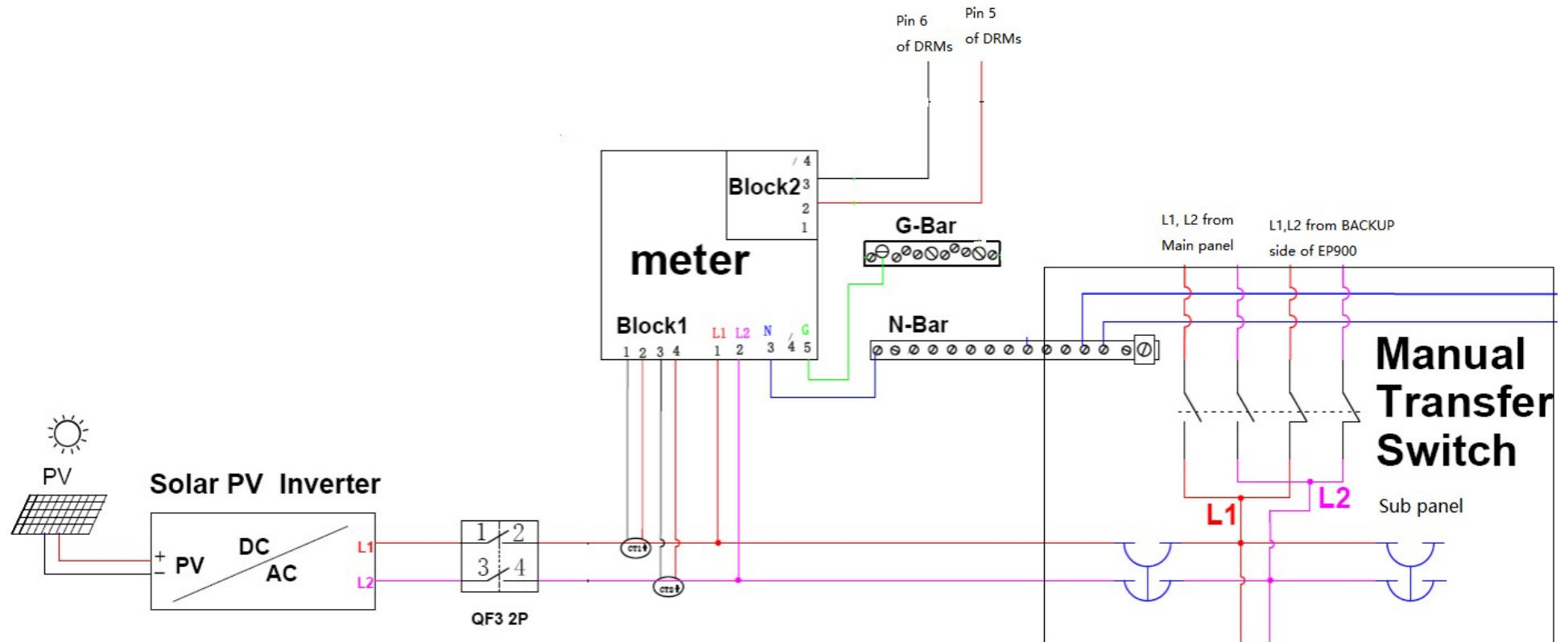


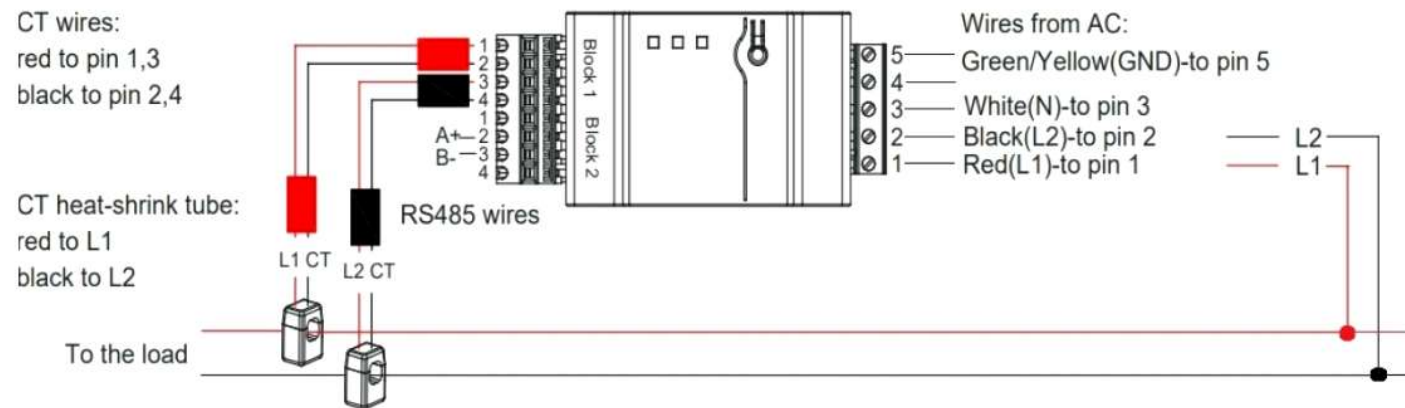


NOTE:

- 1.Enphase inverters are only available for single set of EP900 ESS , not for parallel.
- 2.Solaredge inverters are available for both of single set of EP900 ESS , or parallel.

Meter Connection





Procedures

Step 1: Wiring

Connect the cables according to the electrical diagrams above.

Connect the battery power cables, communication cables, according to the electrical diagram above.

IMPORTANT: Do not connect the PV power cables, BACKUP and GRID cables at this stage.

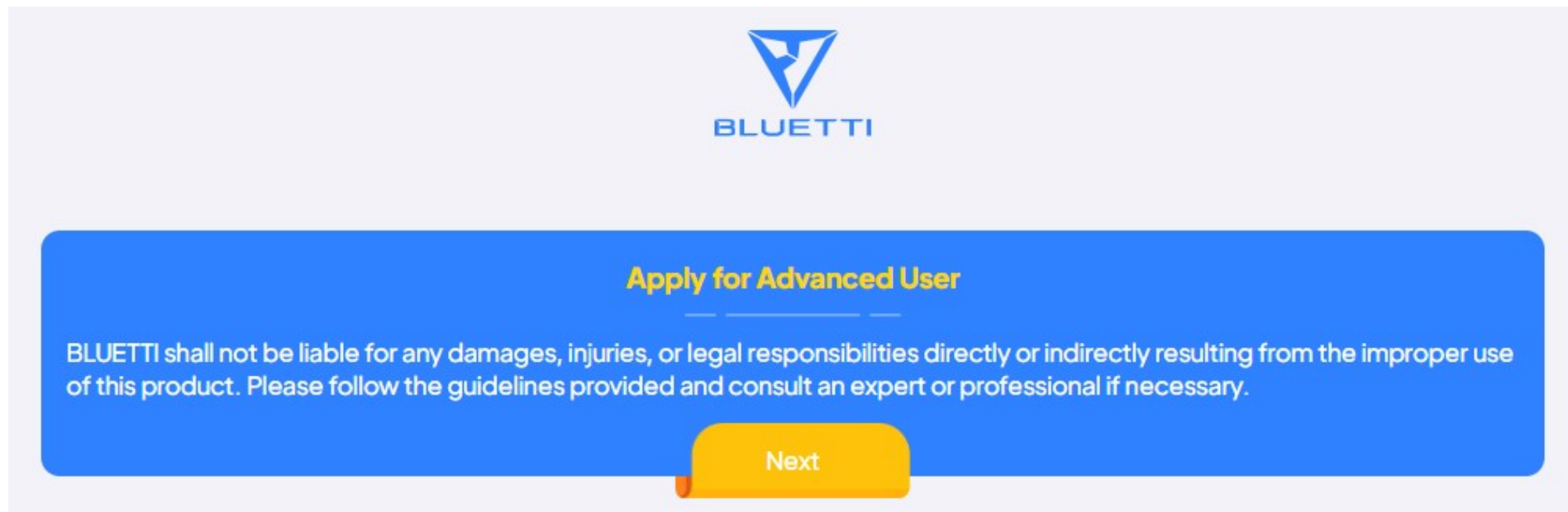
Step 2: Power on

Press and hold the battery power button to activate the energy storage system. Refer to the product's user manual and related materials for detailed instructions.

Step 3: Activate professional mode permissions

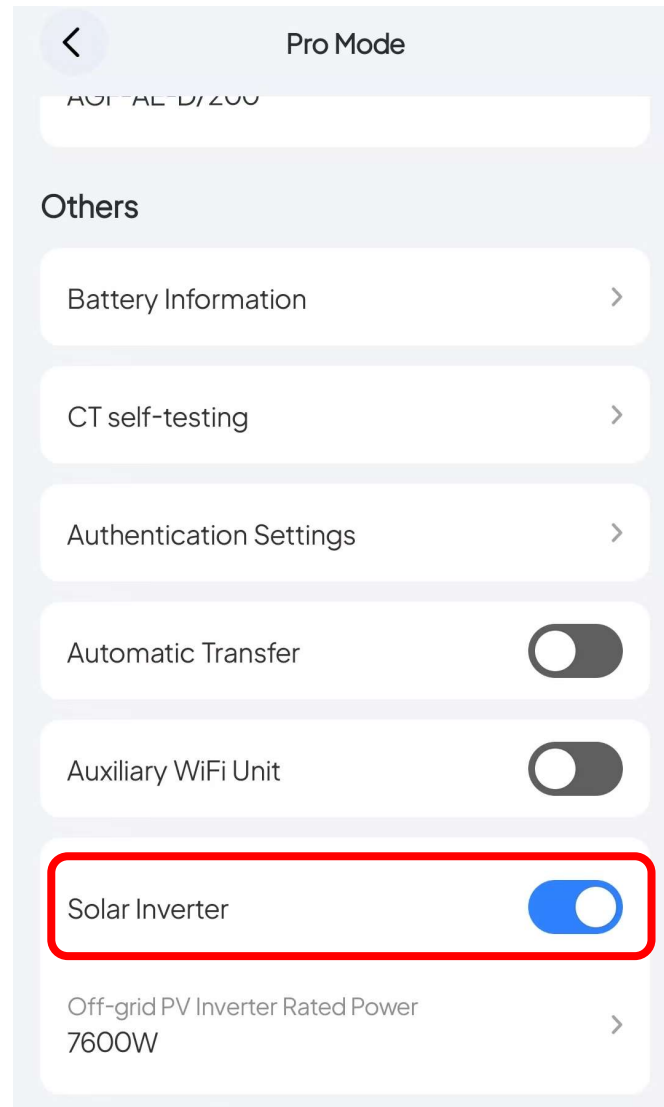
Users need to use the professional features of the app, first register an account, then apply to become an professional user through the following link:

<https://h5.bluettipower.com/app/apply-vip/index.html>



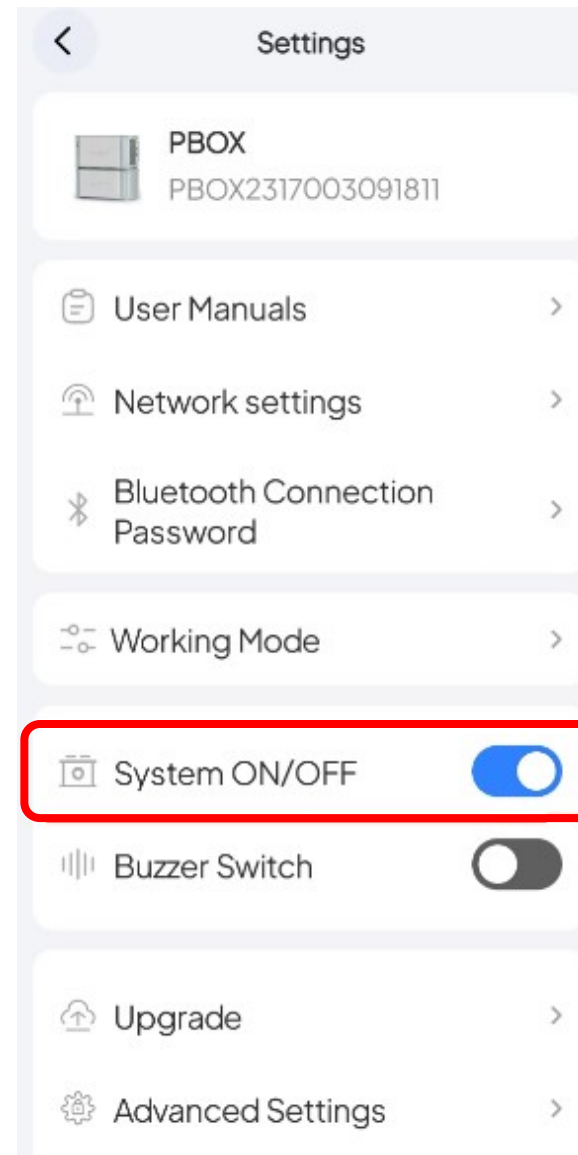
Step 4: PV-inverter Configuration

Access the “Pro Mode” page in the app and Turn on the “Solar Inverter”



Step 5: Initiate

Turn on the “System ON/OFF”



Accessories

Part No.	Accessory	Specs	Diagram	Qty.	Description
29.0101.015 0-00	Meter (Optional)	Acrel, AGF-AE-D/200, 208V / 240V, 60Hz, 200A±1%, L1/L2/N/PE, RS485 communication, Single-phase bidirectional meter (for US version), with 2 200A CTs		1	AC-coupled meter
15.1501.000 1-00	CT (Optional)	Acrel, AKH-0.66-K-Φ16W, 150A / 5A, 2.5VA, -20°C-70°C, Red/Black Wires with Terminal Pin, Cable length: 2m±10cm, 34 × 38 × 50mm		2	Replacement for the meter's CT

Note: The original CT for meter has a size Φ24.

Software Version (minimum required version)

Please upgrade to the latest firmware.

EP900 ESS: ARM 502120, DSP 501916, PBOX904311.