

EP800

Micro-inverter Installation



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.



Copyright © 2024 Shenzhen PowerOak Newener Co., Ltd. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without the prior written consent of Shenzhen PowerOak Newener Co., Ltd.

Notice

BLUETTI's products, services, and features are subject to the agreed-upon terms and conditions during purchase. Please note that some products, services, or features described in this manual may not be available under your purchase contract. Unless otherwise specified in the contract, BLUETTI makes no representations or warranties of any kind, express or implied, with respect to the contents of this manual.

The contents of this manual are subject to change without notice. Please get the latest version from:

<https://www.bluettipower.com/pages/user-guides>

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

Shenzhen PowerOak Newener Co., Ltd.

F19, BLD No.1, Kaidaer, Tongsha RD No.168, Xili street, Nanshan, Shenzhen, China

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

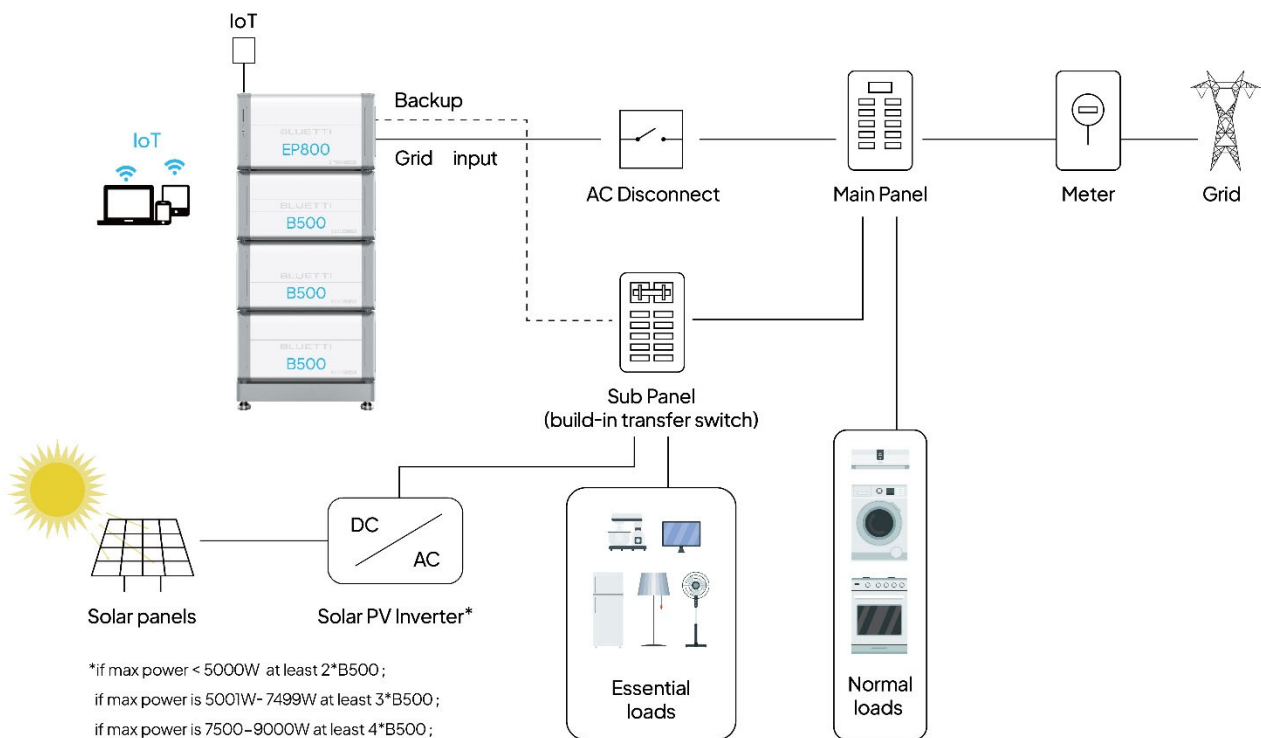
1. Introduction

Key Features:

- If there is a grid failure or when there is no grid, the micro-inverter disconnects from the grid, allowing the PV system and battery storage to operate independently.
- Use the BLUETTI app to set the micro-inverter's power rating.

Note:

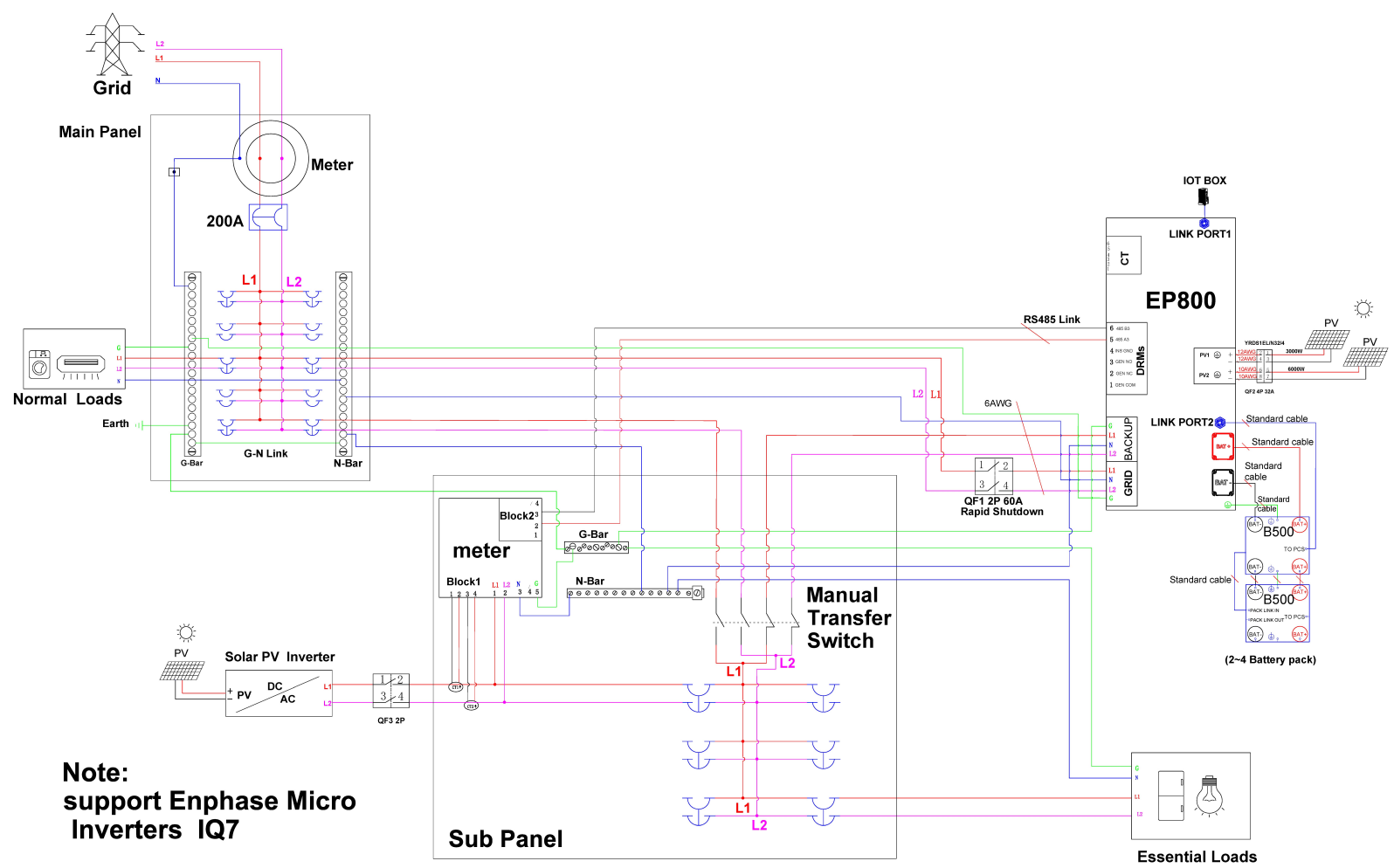
- Do not use a generator as an input source in AC-coupled or micro-inverter systems.
- The micro-inverter can operate independently without EMS and ATS.
- Use only compatible micro-inverters such as the IQ7.



Note: Not all solar PV inverters are compatible with EP800, 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>

2. Electrical Diagrams



Note:
support Enphase Micro
Inverters IQ7

Note: The EP800 electrical diagram has no CT on the grid side.

Procedures

Step 1: Wiring

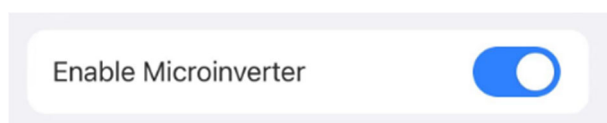
Connect the cables according to the electrical diagrams above.

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: Micro-inverter Configuration

Access the "Pro Mode" page in the app and set the "Off-Grid AC PV Rated Power" (the total power of the PV system). Refer to the product's app user manual for detailed instructions.



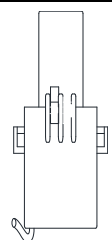
Step 4: Initiate

Turn on the "System Switch" to enable the micro-inverter via the app.

3. Precautions

- The micro-inverter should be used with the meter in the accessories below.
- Don't activate off-grid micro-inverter and regular AC-coupled applications simultaneously.

4. Accessories

Part No.	Accessory	Specs	Diagram	Qty.	Description
29.0101.0150-00	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
15.1501.0001-00	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 $\Phi 24$.

5. Software Version (minimum required version)

EP800 ESS: ARM502711, DSP502612, PBOX904311, BCU102514.