

## BLUETTI Apex 300

# BLUETTI Apex 300 Solar Generator User Manual

Model: Apex 300 | Brand: BLUETTI

## 1. INTRODUCTION

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Thank you for choosing the BLUETTI Apex 300 Solar Generator. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before using the product and retain it for future reference.

The BLUETTI Apex 300 is a powerful and versatile portable power station designed to provide reliable electricity for homes, RVs, and off-grid locations. With a 2764.8Wh LiFePO4 battery, 3840W continuous AC output (7680W peak), and advanced solar charging capabilities, it offers energy independence and emergency backup power.

## 2. SAFETY INSTRUCTIONS

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Always follow basic safety precautions when using this product to reduce the risk of injury, electric shock, or fire:

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near heat sources or in direct sunlight for prolonged periods.
- Avoid exposure to rain or moisture.
- Use only BLUETTI-approved accessories and charging cables.
- Keep out of reach of children and pets.
- Ensure proper ventilation during use and charging.
- Do not insert foreign objects into the ports.

## 3. WHAT'S IN THE BOX

Upon unpacking your BLUETTI Apex 300, please verify that all the following components are included:

- 1 x BLUETTI Apex 300 Power Station
- 2 x 200W Solar Panels
- 1 x AC Charging Cable
- 1 x Car Charging Cable
- 1 x PV Cable (for solar panel connection)
- 1 x Grounding Screw
- 1 x User Manual (this document)

## 4. PRODUCT OVERVIEW

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The BLUETTI Apex 300 is engineered for high performance and reliability, featuring a robust LiFePO4 battery and multiple output options.

### Key Features:

- **High Capacity:** 2764.8Wh LiFePO4 battery, offering over 6000 cycles to 80% capacity, ensuring a lifespan of up to 17 years.
- **Powerful Output:** 4 AC outlets providing 3840W continuous power, with a peak output of 7680W to handle demanding appliances.
- **Expandable Energy:** System is expandable up to 58kWh for total energy freedom, surpassing fixed-capacity competitors.
- **Industry-Leading Efficiency:** Achieves a record low idle loss of only 20W, offering 200% superior efficiency compared to similar products.
- **Rapid Solar Charging:** Supports up to 2400W solar input with dual MPPT, charging to 80% in just 40 minutes at full power. Compatible with 200W solar panels.
- **Plug & Play Operation:** Designed for immediate use with AC appliances, eliminating the need for external wiring.



Figure 4.1: BLUETTI Apex 300 Main Unit. This image shows the primary solar generator unit with its display and various ports.

# Potenza Compatta, Prestazioni

Funzionamento plug & play



4 × Prese CA  
(3840W Max)



Figure 4.2: BLUETTI Apex 300 connected to a microwave, demonstrating its plug-and-play functionality with AC outlets.

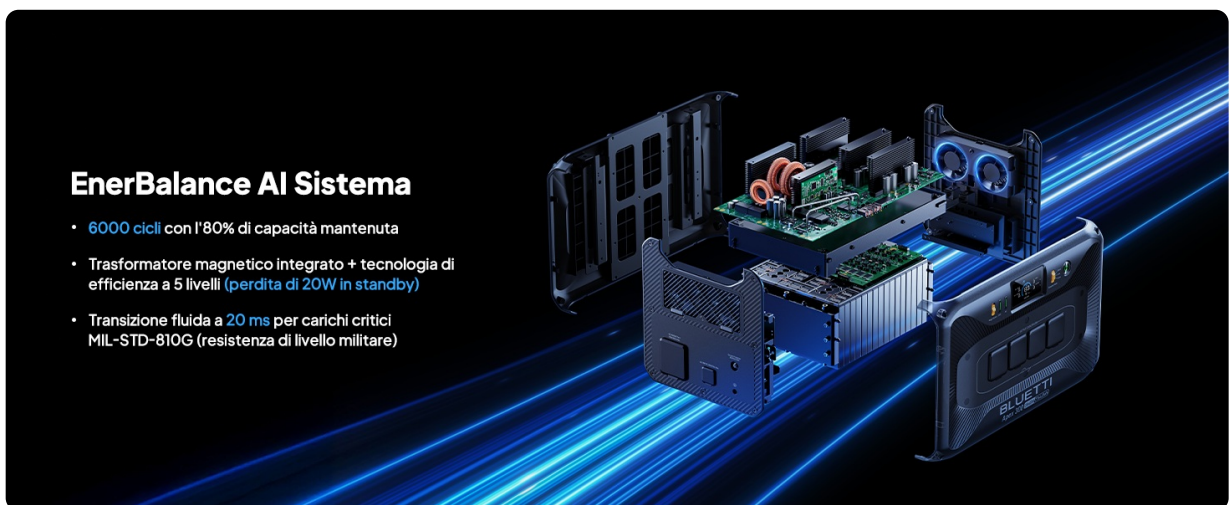


Figure 4.3: Diagram illustrating the BLUETTI Apex 300 as an Intelligent Energy Hub, highlighting its AI peak reduction, 17-year lifespan, low standby consumption, and flexible expansion capabilities.

## 5. SETUP

## Initial Inspection:

Before first use, inspect the unit for any visible damage. If any damage is found, do not operate the device and contact customer support.

## Placement:

Place the Apex 300 on a flat, stable surface in a well-ventilated area. Ensure there is sufficient space around the unit for heat dissipation. Avoid placing it in direct sunlight or near heat sources.

## Connecting Solar Panels:

1. Unfold the 200W solar panels and position them to maximize sun exposure.
2. Connect the PV cables from the solar panels to the solar input ports on the Apex 300. Ensure the connections are secure.
3. For optimal charging, adjust the angle of the solar panels.

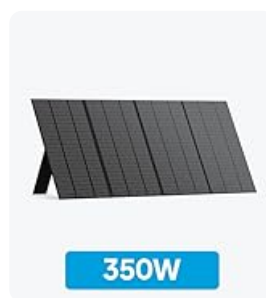


Figure 5.1: Foldable solar panels set up for charging. These panels are designed for easy deployment and angle adjustment to capture maximum sunlight.

## 6. OPERATING INSTRUCTIONS

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### Powering On/Off:

- To power on the unit, press and hold the main power button for a few seconds until the display illuminates.
- To power off, press and hold the main power button again until the display turns off.

### Connecting Devices:

- **AC Output:** Plug your AC appliances into the 4 AC outlets. Ensure the total wattage does not exceed 3840W (7680W peak).
- **DC Output:** Use the DC ports for compatible DC devices.
- **USB Output:** Connect USB devices to the available USB-A and USB-C ports for charging.

# Predisposto per l'uso Fuori Rete

Usa dispositivi ad alto wattaggio insieme



Luci auto



Pompa  
dell'acqua



Macchina  
da caffè



Piano cottura  
a induzione



Grill  
elettrico



Figure 6.1: The BLUETTI Apex 300 powering a circular saw, demonstrating its capability to run high-wattage tools for off-grid use.

# 8,2kWh per Tutta la Casa

Autonomia: da 2 a 4 giorni



**5,1 ore**  
Alimentazione  
CA standard



**4,5 ore**  
Radiatore  
ApPOINT



**6,9 ore**  
Bollitore  
elettrico



**6 giorni**  
Frigorifero  
per auto



**4 giorni**  
Computer  
portatile



\* Tutte le stime si basano sulla funzionalità di Apex 300 e B300K.  
I valori reali possono variare.

Figure 6.2: The BLUETTI Apex 300 integrated into a home setup, providing backup power for various household appliances.

Impila. Espandi. Domina.  
Fino a **58kWh**

**6,4 kW** PV Ingresso  
con SolarX 4K

**TOP1**  
Densità Energetica  
38kg

Prima Soluzione  
Hot-Swap V2.0  
al Mondo  
0 tempi di inattività

Riduzione Intelligente  
dei Picchi Tramite App  
ROI previsto in 2 anni

**7 Metodi di Ricarica Intelligenti**  
Più veloce in 70 minuti, versatile per ogni situazione

|                              |                             |                                  |                           |                              |                                  |                     |
|------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------------|----------------------------------|---------------------|
| <b>70 min</b><br>Ricarica CA | <b>70 min</b><br>Generatore | <b>75 min</b><br>Ricarica Solare | <b>5,5 h</b><br>Charger 1 | <b>70 min</b><br>Solare + CA | <b>1,8 h</b><br>Solare+Charger 1 | <b>70 min</b><br>RV |
|------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------------|----------------------------------|---------------------|

**TOP1 6000+** Cicli  
**17-Anni** Durata  
**20W** consumo inattivo  
(il più basso della categoria)

**20ms UPS**

Figure 6.3: Illustration of the BLUETTI Apex 300 providing reliable backup power for various scenarios, including a refrigerator, cooker, Smart TV, and WiFi router.

## Backup Affidabile per Ogni Scenario

Per la Sicurezza e il Comfort della Tua Famiglia



Figure 6.4: The BLUETTI Apex 300 providing power for an RV, demonstrating its utility for camping and mobile living, powering laptops, emergency lights, AC units, and induction cooktops.

## Potenza Come a Casa per il Tuo Camper

Percorri lunghe Distanze in Totale Comfort



Figure 6.5: The BLUETTI Apex 300 enabling off-grid energy independence, powering devices like a PC desktop, printer, hairdryer, and chainsaw in a quiet environment.

## 7. CHARGING METHODS

The BLUETTI Apex 300 offers multiple charging options:

### Solar Charging:

Connect the provided 200W solar panels using the PV cable. The Apex 300 supports up to 2400W solar input with dual MPPT, allowing for rapid charging. It can reach 80% charge in approximately 40 minutes under optimal solar conditions.

### AC Wall Charging:

Use the AC charging cable to connect the unit to a standard wall outlet. The unit supports fast AC charging.

### Car Charging:

Utilize the car charging cable to charge the Apex 300 from your vehicle's 12V/24V cigarette lighter port.

### Generator Charging:

The unit can also be charged using a compatible generator.

## Indipendenza Energetica Off-Grid

Funzionamento Silenzioso, Concentrazione Indisturbata



**35 ore**  
PC Desktop (300W)



**2 ore**  
Asciugacapelli (1200W)



**25 ore**  
Stampante (400W)



**2 ore**  
Motosega (1200W)



Figure 7.1: Overview of charging methods for the BLUETTI Apex 300, including solar, AC wall outlet, and generator charging.



### Ricarica Solare

**2,4kW→6,4kW** Ricarica Solare  
(con espansione D400S)



### Ricarica CA

**3450W**

70 minuti

100% ⚡



### Ricarica Generatore

**3450W Max.**

Funzionamento ultra silenzioso  
<50dB Livello di rumore (\*vs 70dB+ concorrenti\*)

Figure 7.2: Diagram showing the BLUETTI Apex 300 charging within an RV while driving, utilizing zero energy waste technology.

## 8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your BLUETTI Apex 300.

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.
- **Battery Health:** The LiFePO4 battery is designed for over 6000 cycles to 80% capacity. Avoid consistently fully discharging the battery to prolong its life.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.

## 9. TROUBLESHOOTING

If you encounter issues with your BLUETTI Apex 300, refer to the following common problems and solutions:

| Problem                    | Possible Cause  | Solution   |
|----------------------------|---|--|
| Unit does not power on     | Battery is completely discharged; Power button not pressed correctly.                   | Charge the unit using AC power; Press and hold the power button firmly for several seconds.                            |
| AC output not working      | AC output is not enabled; Overload protection activated; Device wattage too high.       | Ensure AC output is enabled on the display; Reduce connected load; Check device wattage against unit's maximum output. |
| Solar charging not working | Solar panels not connected properly; Insufficient sunlight; Damaged PV cable or panels. | Check PV cable connections; Reposition panels for direct sunlight; Inspect cables and panels for damage.               |
| Unit overheating           | Blocked ventilation; High ambient temperature; Excessive load.                          | Ensure vents are clear; Move unit to a cooler environment; Reduce connected load.                                      |

If the problem persists after attempting these solutions, please contact BLUETTI customer support.

## 10. SPECIFICATIONS

| Feature                        | Specification   |
|--------------------------------|---|
| Brand                          | BLUETTI   |
| Model Name                     | BLUETTI Apex 300+2 200W Solar Panel   |
| Battery Type                   | LiFePO4   |
| Electrical Power (Capacity)    | 2764.8 Watt-hours   |
| AC Output Power (Continuous)   | 3840 Watts  |
| AC Output Power (Peak)         | 7680 Watts  |
| Total Power Outlets            | 6 (4 AC outlets)  |
| Voltage                        | 230 Volts (AC)  |
| Solar Input                    | Up to 2400W with dual MPPT  |
| Recommended Product Uses       | Camping, Emergency, Off-Grid Living   |
| Item Weight                    | 38 Kilograms  |
| Product Dimensions (L x W x H) | 52L x 32.7W x 32H cm  |
| Included Components            | BLUETTI Apex 300, 2x 200W Solar Panels, AC Charging Cable, Car Charging Cable, PV Cable |
| Country of Origin              | China   |

## 11. WARRANTY AND SUPPORT

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BLUETTI products are built with quality and reliability in mind. For specific warranty details regarding your Apex 300 Solar Generator, please refer to the warranty card included in your package or visit the official BLUETTI website.

For technical support, troubleshooting assistance, or any other inquiries, please contact BLUETTI customer service through their official channels. Have your product model and serial number ready when contacting support.