

AC 500 FAQ's

Q1: What is the output power of AC500?

A:

4,500W Max. with 1*B300S

5,000W Max. with 2*B300S or more

3,000W Max. with 1*B300

5,000W Max. with 2*B300 or more.

Q2: How many B300 packs can be connected to AC500 ?

A: 4

Q3: How many B300S packs can be connected to AC500 ?

A: 6

Q4: Can B300S and B300 be mixed?

A: Yes. 4 packs in total.

Q5: Can I use AC500 alone?

A:

No, it's 100% modular and needs to team with B300S/B300 to get its job done.

Q6: What is the max charging power of AC500?

A:

1. 3,000W max. with 1*B300

2. 5,000W max. with 2*B300 or more

3. 4,500W max. with 1*B300S (PV+AC)

4. 8,000W max. with 2*B300S or more (PV+AC)

Q7: Can I use other brands' batteries?

No, AC500 is compatible with B300S or B300 ONLY.

Q8: What is the power consumption of AC500 when it's off/on?

1. 11W when AC500 is on, DC and AC are off;

2. 30W when AC and DC are on.

Q9: Do I need an extra cable to connect B300 and AC500?

Yes, P150D to P090D is required, you may order it separately in BLUETTI Store.

Q10: What is the difference between B300S and B300?

- 1) Current capacity: 130A for B300S while 75A for B300.
- 2) ONLY B300S features the automatic heating function.
- 3) Solar input: 500W for B300S while 200W for B300.

Q11: How does the heating function work?

When the temperature is below 0°C, the battery will be automatically heated once AC or PV charging is activated (input power > 400W).

Q12: Is AC500 compatible with AC300's fusion box?

Yes.

Q13: How to connect AC500 to the main panel?

Low Voltage Area: Match the transfer switch and smart home panel to the main panel.
High Voltage Area: Match the transfer switch to the main power box.

Q14: Can fusion box connect with AC500 and AC300 simultaneously?

Not recommended.

Q15: What is the maximum power of AC500 when using the fusion box?

- 1) 7,200W when connected with P030A
 - 2) 10,000W when directly connected to the distribution box.
- Note: The split phase function is only available for US Version.

Q16: Is there a UPS function when using fusion box?

No, but we do have EPS (emergency power supply).

Q17: What is the switching time of the UPS?

20ms.

Q18: Can I use third party solar panels to charge AC500?

Yes, the solar panels must meet the following conditions:

- 1) Total voltage: 12-150V
- 2) Total power: 3000W max.
- 3) With MC4 connectors

Q19: Can I use rooftop solar panel to charge AC500?

Yes, but please note that your solar roof must meet:

1. No micro-inverter
2. Open circuit voltage 12-150V
3. With MC4 connectors

Note: When OCV exceeds 150V, you may use BLUETTI D300S* to step down the voltage to achieve solar charging.

Q20: Does AC500 support charging and discharging at the same time?

Yes.

Q21 : How long will AC500 run my device?

Running time = battery capacity x DoD x η ÷ device rated power DoD: Depth of Discharge, η : local inverter efficiency. For AC500, both DoD and η are 90%. If you run a 1,000W microwave oven with a AC500 + B300S combo, the running time will be $3,072\text{Wh} \times 90\% \times 90\% \div 1,000\text{W} \approx 2.5$ hours

Note:

- 1) This formula doesn't apply to inductive loads with compressors, such as refrigerators, air conditioners, etc.
- 2) The above data is for reference ONLY.

Q22: Is AC500 waterproof?

No, please keep it in a dry place.

Q23: Can I use the fusion box in high voltage areas?

No.