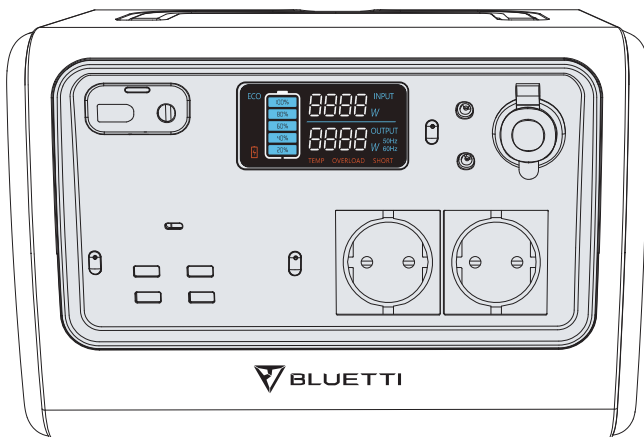


BLUETTI EB55

User Manual



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 for both indoor and outdoor use while delivering an exceptional eco-friendly experience for our homes and our world.

That's why BLUETTI makes its presence in 70+ countries and is trusted by millions of customers across the globe.



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Important Safety Instructions

WARNING – When using this product, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product is used near children.
- c) Do not put fingers or hands into the product. DO NOT insert foreign objects into any ports of the machine. Please operate it carefully and keep children away from it.
- d) Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
- e) To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
- f) Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- g) Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
- h) DO NOT attempt to replace the internal battery or any other component of the equipment by anyone other than authorized personnel. There are no end-user serviceable components. Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- i) To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
- j) **WARNING – RISK OF EXPLOSIVE GASES.**

To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary marking on these products and on engine.

k) PERSONAL PRECAUTIONS

- 1) Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 2) NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- 3) Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
- l) When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
- m) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

n) DO NOT place the power station near heat sources. It is prohibited to place the equipment in an environment with flammable, explosive gas, or smoke. It is also prohibited to operate the equipment in this environment. Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130° C may cause explosion. The temperature of 130° C can be replaced by the temperature of 265° F.

o) Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

p) DO NOT operate in wet conditions. If the equipment becomes wet, please let the unit dry completely before using.

q) Please ensure proper ventilation while in use and do not obstruct fan openings. Inadequate ventilation may cause permanent damage to equipment.

r) DO NOT stack anything on top of the power station while in storage or while in use. DO NOT move the unit while operating as vibrations and sudden impacts may lead to poor connections to the hardware inside.

s) In case of fire, only a dry powder fire extinguisher is suitable for the product.

DANGER: This device is intended to be used indoors only. Do not use outdoors.

SAVE THESE INSTRUCTIONS

User Maintenance Instructions

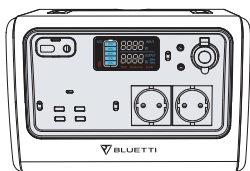
- Please fully charge the machine before storing it.
- Turn off all power buttons.
- To preserve the battery lifespan, please use and recharge at least once every 6 months.
- Wring the cloth with water and wipe it clean. In case of dirt.

Moving And Storage Instructions

- Ensure proper ventilation while in use or store and keep away from any combustible materials or gases. Do not stack anything on top of the unit in storage or in use. Inadequate ventilation and/or improper storing may cause damage to the unit.
- Avoid exposing the product to rain or using the product in humid environment.
- Use and store the product in a clean and dry environment.
- Keep this product away from children and pet.

What's In The Box

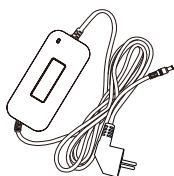
Standard Packaging



Portable Power Station



Warranty Card



AC Adapter

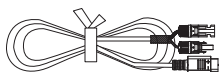


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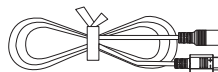
* Below accessories are not included in standard packaging and can be purchased separately at <https://www.bluettipower.eu>.



Car Charging Cable



Solar Charging Cable



DC7909-XT60 Female Cable

* **AC Adapter:** 47in/120cm.

Car Charging Cable: 28in/72cm. XT60 to Cigarette lighter port.

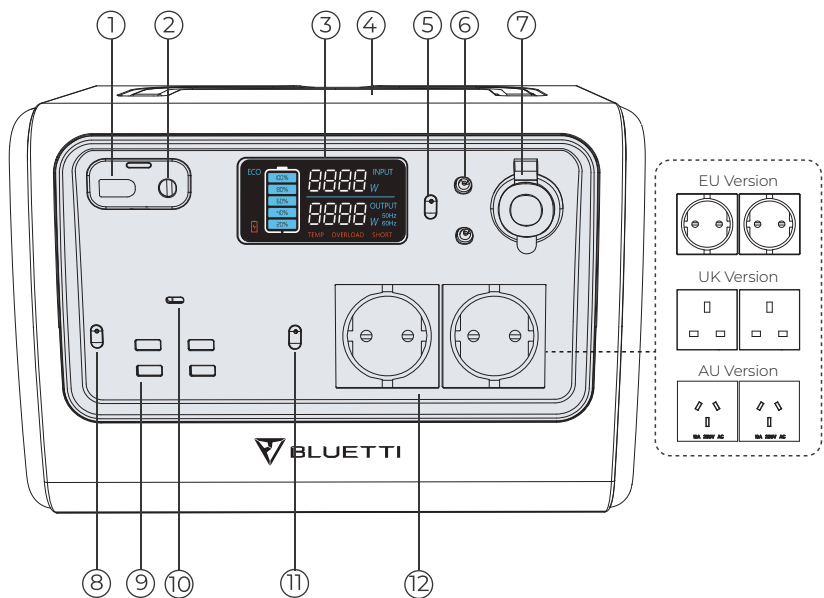
Solar Charging Cable: 59in/150cm. XT60 to MC4.

DC7909-XT60 Female Cable: 20in/50cm. DC7909 to XT60.

Note: Package details are subject to change without prior notice.

Product Overview

Diagram



1. DC Input

2. Adapter Input

3. LCD Screen

4. Wireless Charging Pad

5. DC 12V Power Button

6. DC5521 Port
7. Cigarette Lighter Port

8. DC Power Button

9. USB-A Port

10. USB-C Port

11. AC Power Button

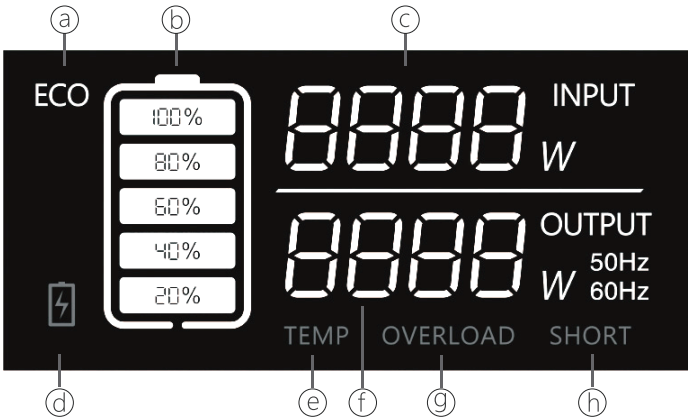
12. AC Output

Specifications

EB55		
General		
Battery Capacity	537Wh	
Cell Type	LiFePO4	
Dimensions (L*W*H)	10.94*7.87*7.79IN/278*200*198MM	
Weight	16.5LB/7.5KG	
Discharging Temperature	-4-104°F/-20-40°C	
Charging Temperature	32-104°F/0-40°C	
Storage temperature	-20-45°C(Optimal: 20-30°C)/-4-113°F(Optimal: 68-86°F)	
Working Humidity	10-90%	
AC Output		
Power	700W	
Surge	1400W	
Voltage(EU/UK/AU)	220-240VAC	
DC Output		
Cigarette Lighter Port *1	Voltage	12VDC
	Current	10A (Cigarette Lighter and DC5521 10A total)
DC5521 *2	Voltage	12VDC
	Current	10A total (Cigarette Lighter and DC5521 10A total)
USB-A *4	Voltage	5VDC
	Current	3A
USB-C PD3.0 *1	Power	100W Max.
Wireless Charging *1	Power	5/7.5/10/15W
Adapter Input		
Power	200W Max.	
Voltage	25-28VDC	
Current	10A Max.	
PV Input		
Power	200W Max.	
Open Circuit Voltage (OCV)	12-28VDC	
Current	8A Max.	
Car Charging	98W@12V; 196W@24V	
Adapter + PV Dual Charging	400W Max. (200W for Both Adapter and PV)	
Dual Adapter Charging	400W Max. (Extra adapter needed)	

Operation

LCD Screen



- a: ECO Mode
- b: Battery Capacity
- c: Input Power
- d: Low-battery Alert
- e: Temperature Anomaly Alert
- f: Output Power
- g: Overload Alert
- h: Short-circuit Alert

Powering On/Off

Powering on: Press the AC/DC/DC 12V Power Button to start up corresponding output.

Green light(on the button)	ON
LCD Display	ON*

*The LCD screen is on for 30-60 seconds. Please enable at least one of these ports (AC/DC/DC 12V) if you want the display to stay on longer.

Note: Please turn on the DC power to enable the wireless charging.

Powering off: Press and hold power buttons to shut down corresponding output.

Green light(on the button)	OFF
LCD Display	OFF

Mode

Setting Mode: When the AC output is off, press AC and DC power buttons simultaneously and the frequency indicator flashes.

ECO Mode¹: Under 'Setting Mode', press the DC power button to turn it on/off.

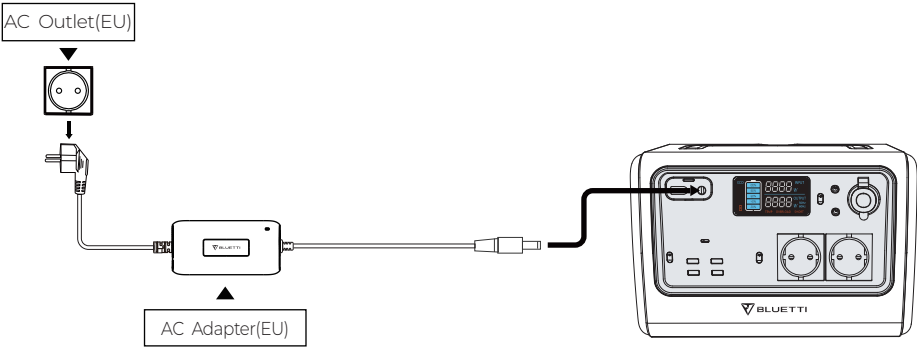
Setting

AC Frequency²: Under 'Setting Mode', press the AC power button to switch.

Charging

AC Charging

Simply plug the EB55 into a standard wall outlet and start charging.



¹ When on this mode, the AC/DC output will automatically turn off after 4-hour low ($\leq 10W$ for AC, $\leq 1W$ for DC) or no load to save power.

² AC Frequency: The number of alternating cycles per second in an AC sine wave. The utility frequency is usually 50/60Hz.

PV Charging

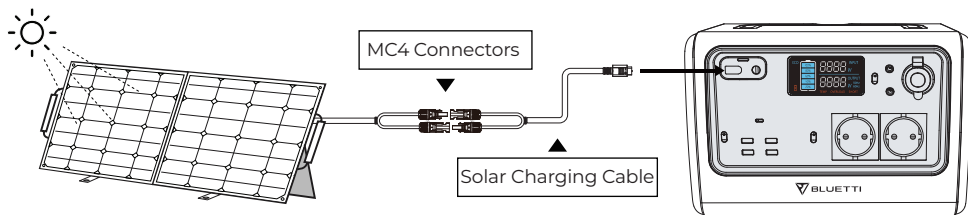
Connect the solar panels (in series or parallel) to EB55 via the solar charging cable.

Note: Please make sure your solar panels comply with:

OCV³: 12-28V

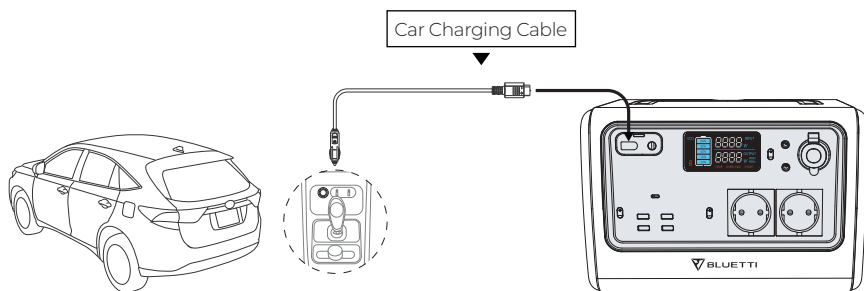
Input Current: 8A Max.

Input Power: 200W Max.



Car Charging

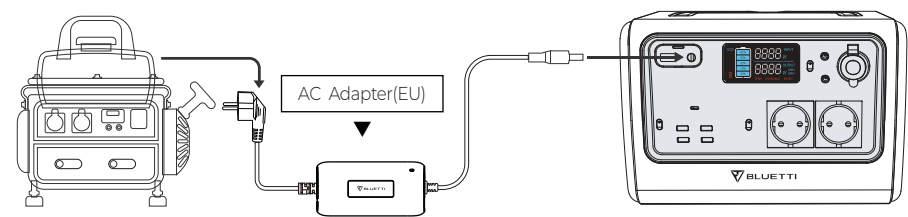
Connect the EB55 directly to the vehicle plug-in cigarette lighter port via the car charging cable.



³OCV: Open circuit voltage. The maximum voltage that the solar panel can produce with no load on it.

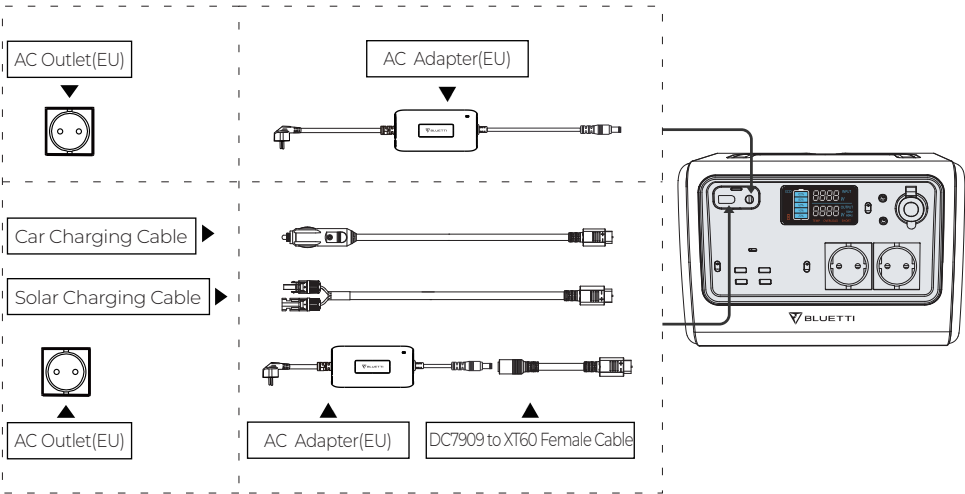
Generator Charging

Connect the AC adapter input plug to the generator while the output plug goes to the DC charging port of EB55.



Dual Charging

EB55 also supports dual charging. (e.g. Adapter+ PV Charging and Dual Adapter Charging).



⁴ An extra adapter (200W AC Adapter + DC7909-XT60 Female Cable) is needed for dual Adapter charging.

Discharging



Phone
40-50 Times
10Wh



LED Light
20-30Hrs
20W



Television
5-6Hrs
75W



Electric Tool
5-6Hrs
80W



Refrigerator
4-5Hrs
90W



Slow Cooker
2-3Hrs
200W

$537\text{Wh} \times \text{DoD} \times \eta \div (\text{load power}) = \text{charging time (estimated)}$

Note: DoD refers to the Depth of Discharge, η is the local inverter efficiency. DoD=90%, η =90%.

Load power and charging time are measured in Watt and Hour.

Appendix

FAQs (Frequently Asked Questions)

Q: How do I know whether my devices will work well with this product?

A: Please evaluate the total constant load of your appliances. If it doesn't exceed the Max. output power of EB55, you can use this power station to charge.

Q: Can I use third-party solar panels to charge this product?

A: Yes, you can. As long as the specs of solar panels you're using fall in below range:

OCV: 12-28V

Input Current: 8A Max.

Input Power: 200W Max.

With the same power connector (MC4 or Anderson)

Q: How can I charge this EB55 by dual adapter charging?

A: An extra adapter (200W AC Adapter + DC7909-XT60 Female Cable) is needed to connect to the DC input port.

Q: Is there a button to turn on/off the wireless charging?

A: Yes. Press the DC Power Button to enable the wireless charging.

Q: Can it charge and discharge at the same time?

A: Yes. It supports pass-through charging. EB55 comes with the premium LiFePO₄ battery and proprietary Battery Management System to ensure that it can charge and discharge at the same time.

Technical Support

Should you require any further assistance, please do not hesitate to contact BLUETTI service team.

BLUETTI POWER INC

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

Mail: sale-eu@bluettipower.com

Add: LindwurmstraBe 114, 80337 Munich, Germany.



