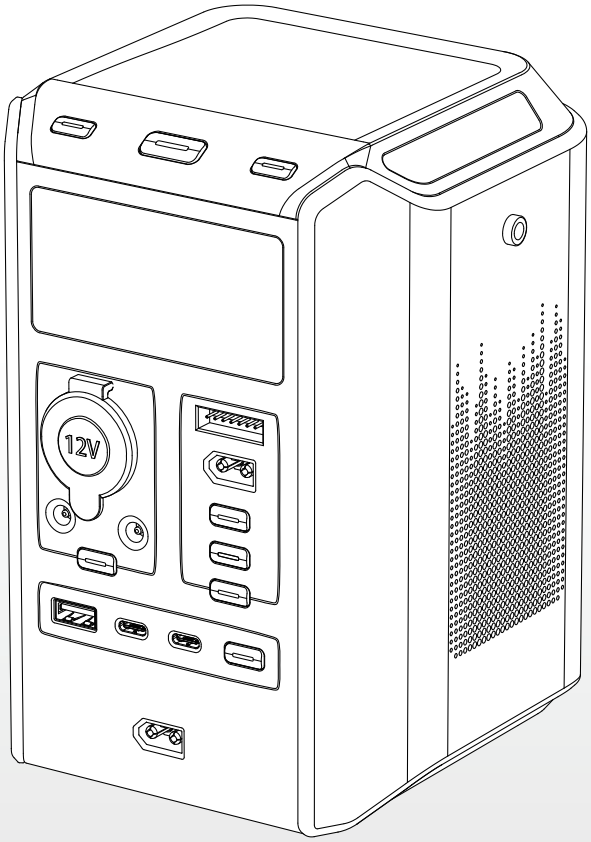
User Manual



PPS-P300M

300W DC Portable Power Station

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Disclaimer

Disclaimer

Please keep this user manual properly and operate the product in accordance with the manual. The company shall not be liable for any problems arising from failure to follow the instructions in this manual. This manual is subject to update without prior notice.

Transportation

1.Protect the product from severe impacts, vibration, and dropping.

2.Do not bring this product on board an aircraft.

3.Do not stack items on top of this product.

Environment

4.Use and store this product within the temperature and humidity ranges specified in the user manual.

5.Keep this product away from water, fire, heat soures, metals, chemicals, and dusty environments during use and storage.

6.Do not use or store this product in environments with strong electrostatic or magnetic fields.

7.Do not use this product in any type of vehicle, including aircraft, cars, or boats.

8.Keep this product out of the reach of children and pets.

Operation

9.Please check the external batteries, wires and terminals to ensure they are intact, free from corrosion, moisture and damage.

10.Verify the battery specifications first, and only charge with battery models supported by this product.

11.It is prohibited to charge battery packs with mixed cell types, or connect multiple battery packs for charging at the same time.

12.Do not charge the batteries overnight. Never leave the batteries unattended during charging.

13.When charging, connect the charger first, then the battery load. When disconnecting, remove the battery load first, then disconnect the charger.

14.Use only official or recommended accessories to charge this product.

15.Do not plug the product's outlets into its own output socket.

16.Do not block the ventilation openings to prevent the product fr om overheating.

17.Do not insert fingers or any body parts into the product.

18.Do not use this product to power medical equipment or precision instruments.

19.Never use the product to power tools to cut or access live parts or live wirings, or materials that may contain live parts or live wirings inside, such as building walls, etc.

Disclaimer

Maintenance

20.For any maintenance, consult a qualified professional for service or guidance.

21.Do not puncture or disassemble this product using tools or other objects.

22.If the product gets wet, stop using it immediately and place it in a waterproof, ventilated and safe area.

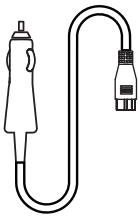
23.If the product is severely damaged, put on insulated gloves, power it off, and place it in a safe, ventilated area.

24.This product contains batteries. For recycling, discharge the battery completely and dispose of it properly in accordance with local regulations.

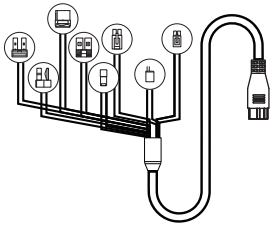
Product List

Package List

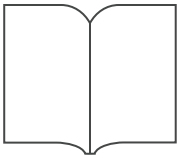
Power Station



Cigarette Lighter to XT60 Cable



XT60 multifunctional Adaptor Cable



User Manual

Warranty Card

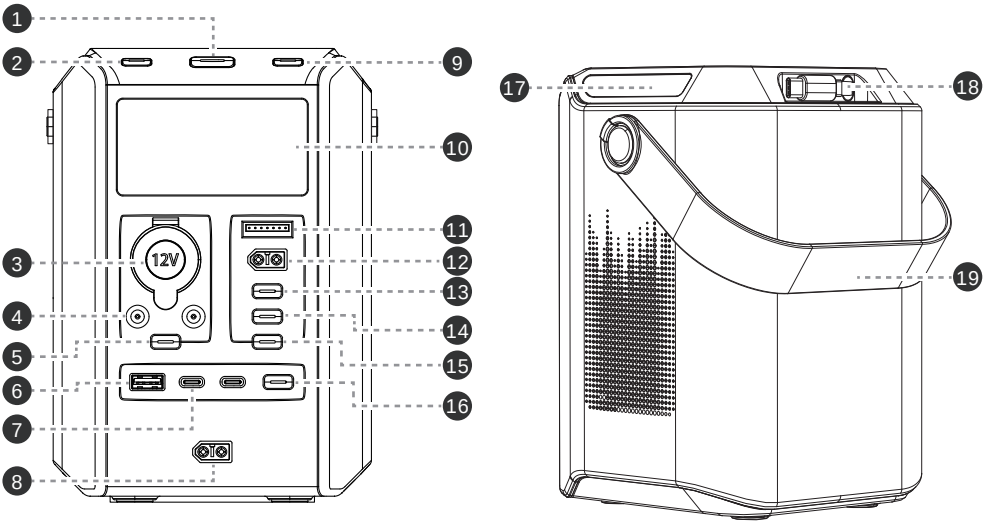
APP QR Code

Warning

1. Check whether the product and accessories are intact and undamaged.
2. Before first use, please charge the unit fully, then continue charging for an additional hour.
3. It is recommended to fully charge and discharge the product every 3 months, then recharge it to 60% capacity for storage.
4. To clean the product, turn off the power first, then gently wipe it with a dry, soft cloth.

Product Description

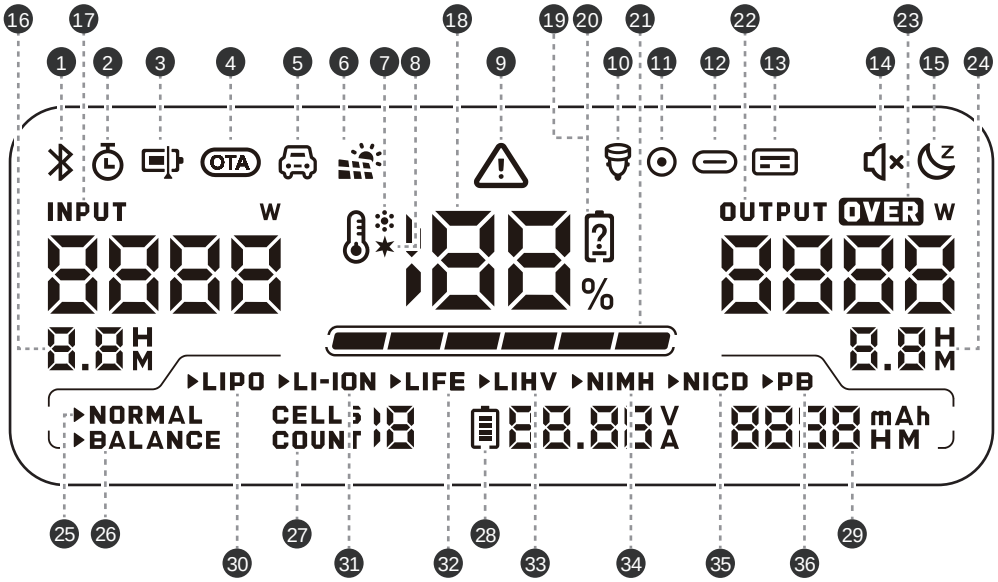
Overview



1.	Main Power Button	7.	USB-C Output Port	13.	Battery Type Button
2.	IOT Button	8.	PV Input Port(XT60)	14.	Battery Cell Count Button
3.	Cigarette Lighter Output Port	9.	Light Strip Power Button	15.	Multi-function DC Output Button
4.	5521 DC Port	10.	LCD Screen	16.	USB Power Button
5.	Cigarette Lighter&5521 DC Output Power Button	11.	Pin Header Port	17.	Light Strip
6.	USB-A Output Port	12.	Normal Charge Port	18.	USB-C Retractable Cable
				19.	Hand Strap

Product Description

LCD Screen



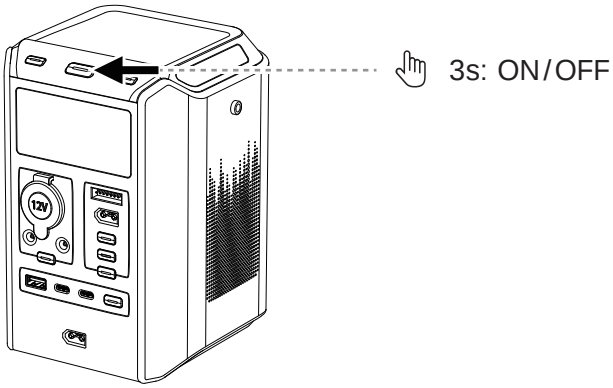
1.		Bluetooth	13.		USB-A Output	25.	NORMAL	Normal Charge
2.		Scheduled Task	14.		Mute	26.	BALANCE	Balance Charge
3.		Charge-Discharge Limit	15.		Night Mode	27.	CELLS COUNT 8	Cell Count
4.	OTA	OTA Upgrade	16.	8.8 H M	Charge Time Left	28.	88.88 V A	BAT Voltage/ Current
5.		Car Input	17.	INPUT 8888 W	Input Power	29.	8888 mAh H M	Charge Capacity/ Time
6.		PV Input	18.	88 %	BAT Percentage	30.	LIPO	LiPo
7.		High Temp	19.		Low BAT	31.	LI-ION	Li-ion
8.		Low Temp	20.		BAT Error	32.	LIFE	LiFe
9.		Error Warning	21.		BAT Bar	33.	LIHV	LIHV
10.		Cigarette Lighter Output	22.	OUTPUT 8888 W	Output Power	34.	NIMH	NIMH
11.		5521 DC Output	23.	OVER	Output Overload	35.	NICD	NiCd
12.		USB-C Output	24.	8.8 H M	Runtime	36.	PB	Pb

Notice: Unlabeled icons are unsupported in this model.

Instructions for Use

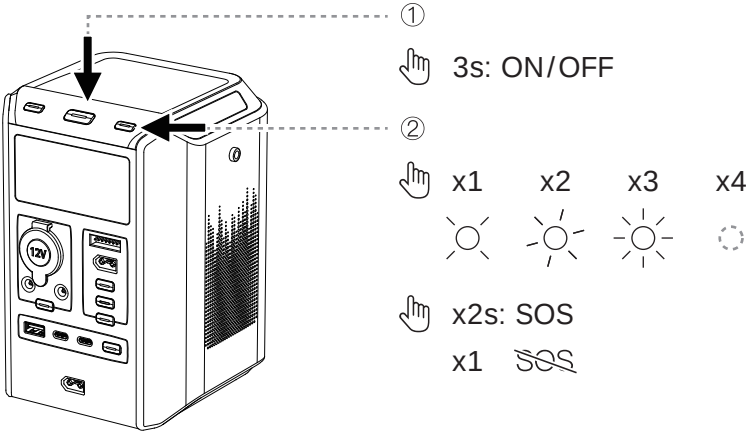
Power On/Off

1. Long press the power button for 3—5 seconds to turn on or off the power.
2. Short press the power button to turn on or off the screen.



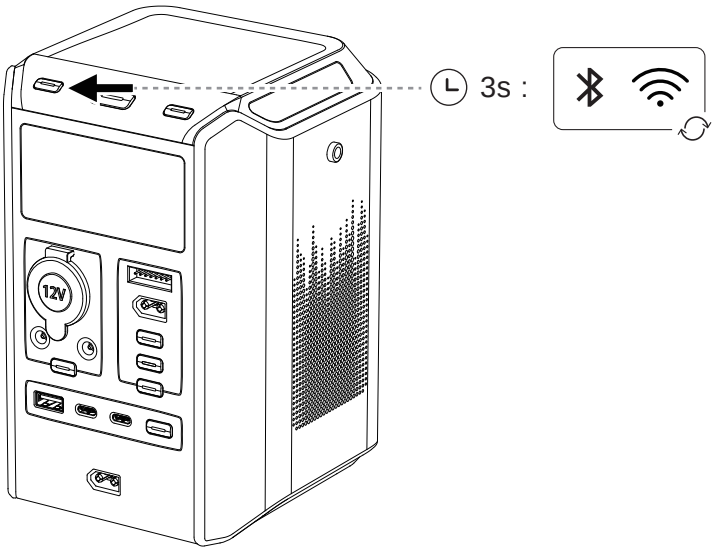
Light Strip Power Button

1. After the device powers on, short press the light strip power button repeatedly to cycle through low, medium and high brightness levels until the light strip turns off.
2. After the device powers on, long press the light strip power button for 2 seconds to activate SOS mode; short press again to turn off the light strip.



IOT Button

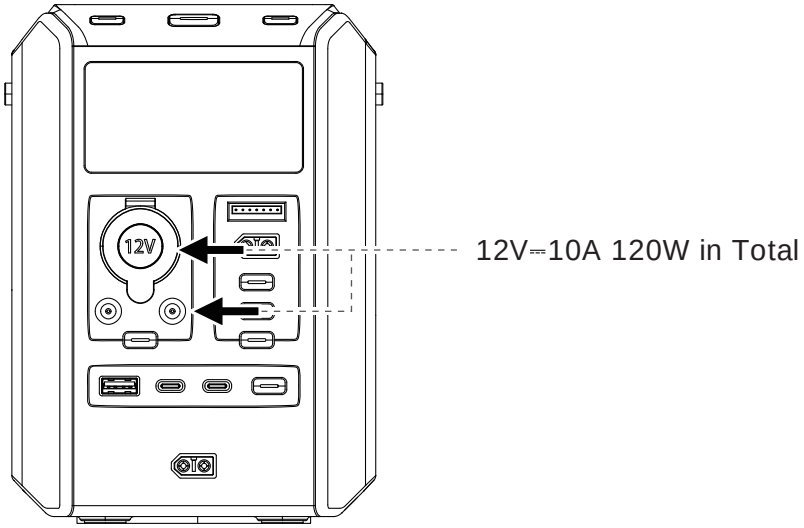
1. Short press IOT button to connect the device.
2. Long press IOT button for 3 seconds to unbind the device.



Power your Loads

Cigarette Lighter & 5521 DC Powering

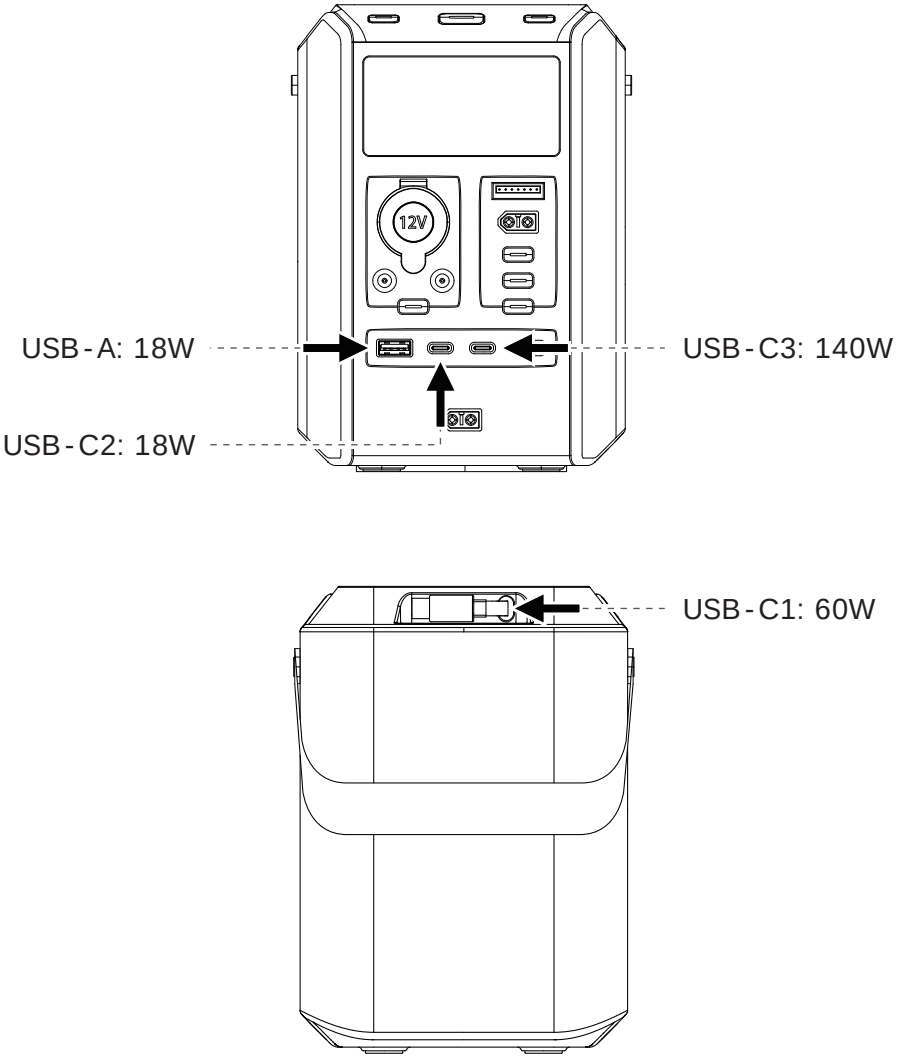
Disconnect your loads and press the DC output power button to turn off the DC output after using.



Power your Loads

USB Output Powering

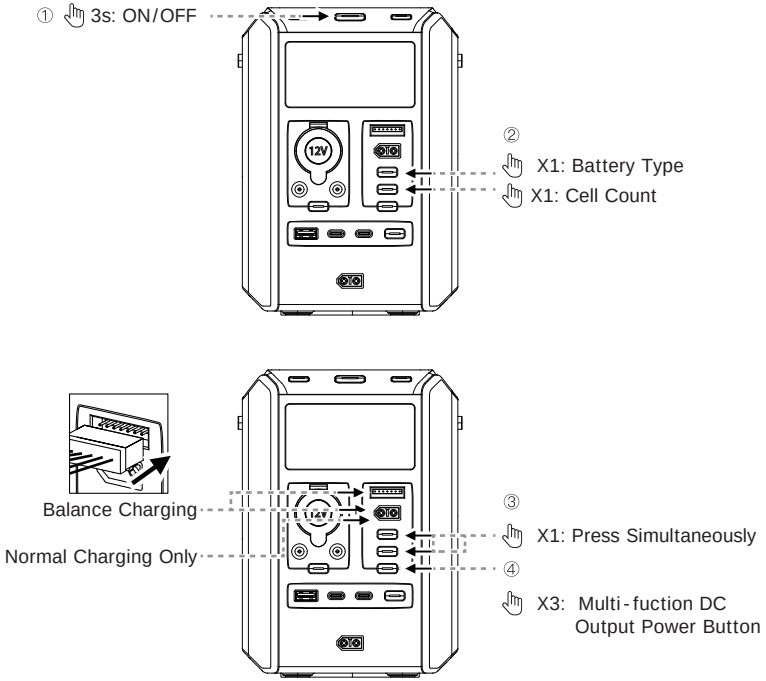
Disconnect your loads and press the corresponding DC output power button to turn off the DC output after using.



Power your Loads

Multi-function DC Output Powering

1. After power-on, short press multi-function DC output button to turn on the output power.
2. Short press the battery type button and cell count button to set the battery type and cell count.
3. Simultaneously press the battery type button and cell count button to select Normal Charge or Balance Charge according to the battery type.
4. Press and hold the multi-function DC output button for 3 seconds to power an external battery with the default settings. Powering will automatically stop once the battery is fully charged. For customized parameters, adjustments can be made via the APP. To enable the DC power supply function, configure it in the APP.
5. If there is a necessity to interrupt powering, press and hold the multi-function DC output button for 3 seconds to stop powering, then short press the button again to turn off the output.



Power your Loads

Multi-function DC Output Powering

	Button Operation		APP Operation			
	Normal Charge	Balance Charge	Storage Charge	Repeat Charge	AGM Charge	DC Power Charge
NiMH/NiCd :1–15S	✓	/	/	✓	/	/
Pb:1–12S	✓	/	/	/	✓	/
LiPo/Li-Ion LiFe/LiHv :1–6S	✓	✓*	/	/	/	/
Small DC-powered Device	/	/	/	/	/	✓

* Pin header connectors required; Voltage calibration is available via the APP.

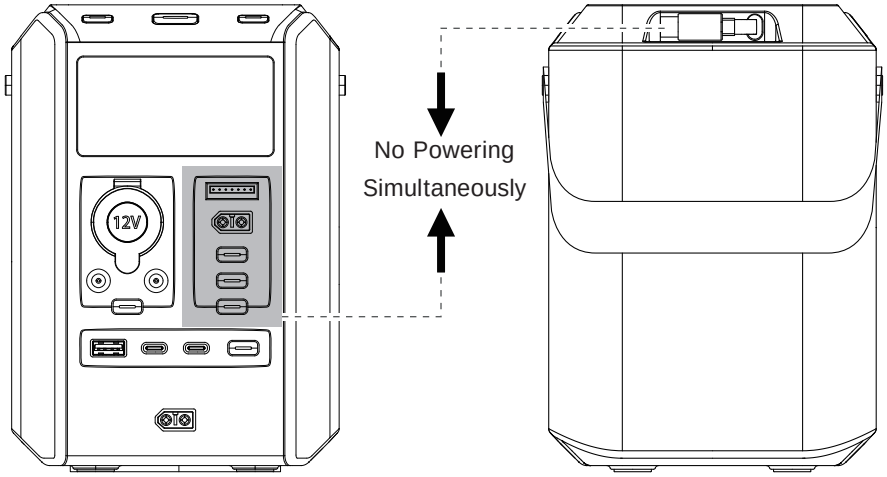
Standard Battery Parameters

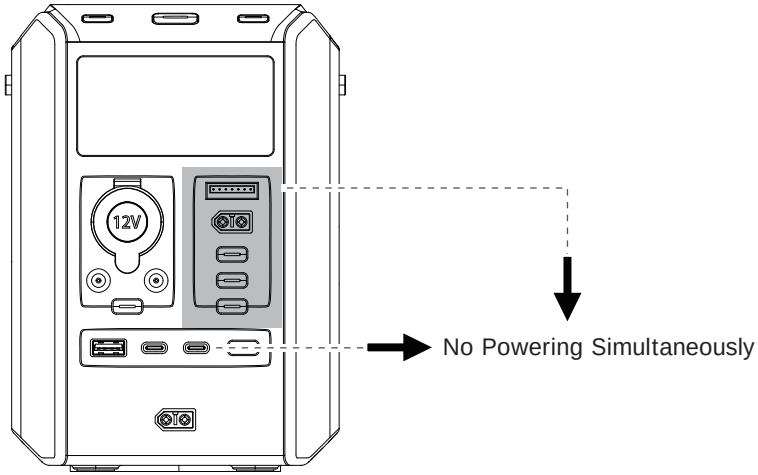
	LiPo	Li-ion	LiFe	LiHV	NiMH	NiCd	Pb
Nominal Voltage	3.7V/cell	3.6V/cell	3.3V/cell	3.8V/cell	1.2V/cell	1.2V/cell	2.0V/cell
Max. Charge Voltage	4.2V/cell	4.1V/cell	3.6V/cell	4.35V/cell	1.5V/cell	1.5V/cell	2.4V/cell
Storage Voltage	3.8V/cell	3.7V/cell	3.3V/cell	3.85V/cell	/	/	/
Allowable Fast Charge Current	≤1C	≤1C	≤1C	≤1C	1C-2C	1C-2C	≤0.4C
Min. Charge Voltage	3.0-3.4 V/cell	2.9-3.3 V/cell	2.6-3.0 V/cell	3.1-3.5 V/cell	0.1-1.0 V/cell	0.1-1.0 V/cell	1.8-2.0 V/cell

Power your Loads

Hybrid Powering

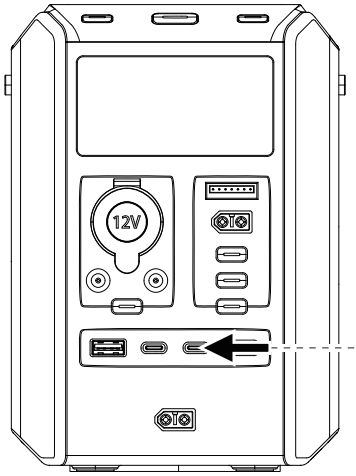
Discharge-only mode: Multi-function DC output cannot operate simultaneously with USB-C1 or USB-C3 output; all other ports work remain available.



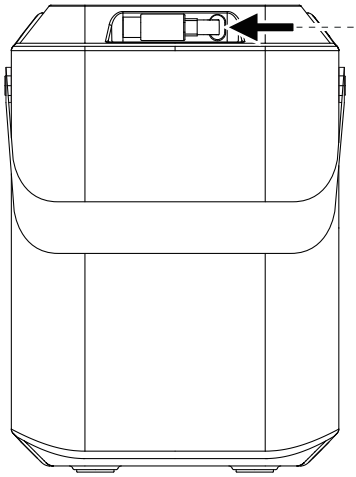


Recharge Methods

USB-C Charging



USB-C3 IN/OUT: 140W

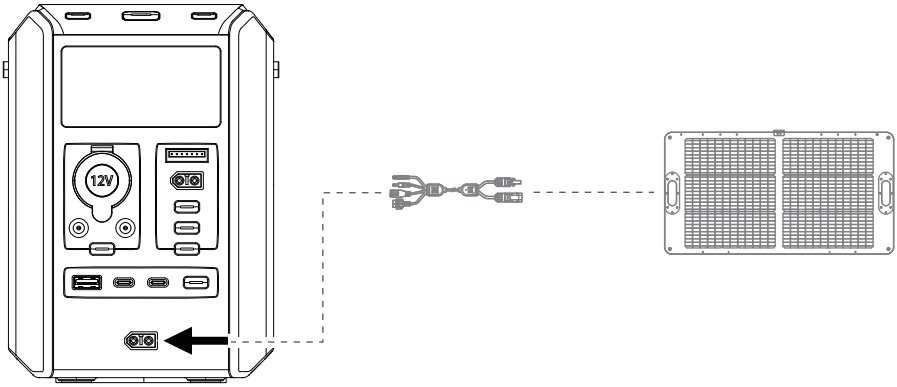


USB-C1 IN/OUT: 60W

Recharge Methods

PV Charging

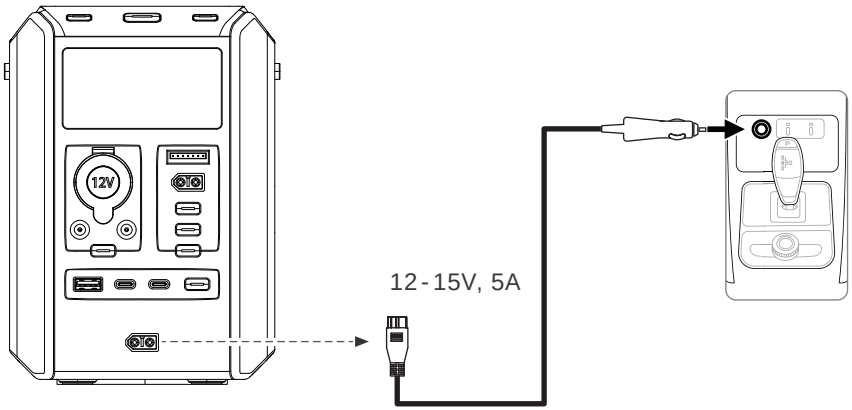
Please make sure the open-circuit voltage of the solar panel is below 24V.



Solar Panels and adapter cables need to be purchased separately.

Cigarette Lighter Charging

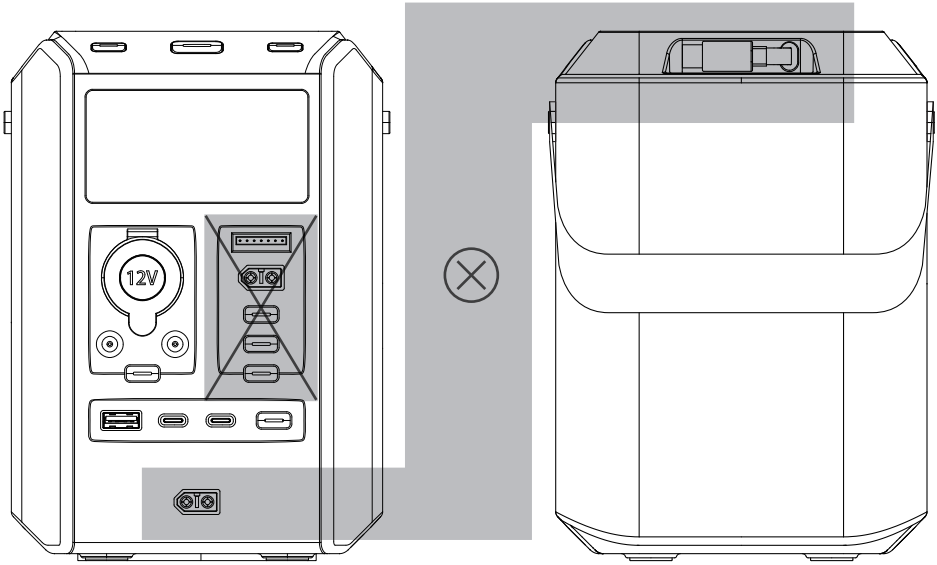
Start the car first, then connect the power station and cigarette lighter. Make sure they're in good connection.



Recharge Methods

Hybrid Recharging

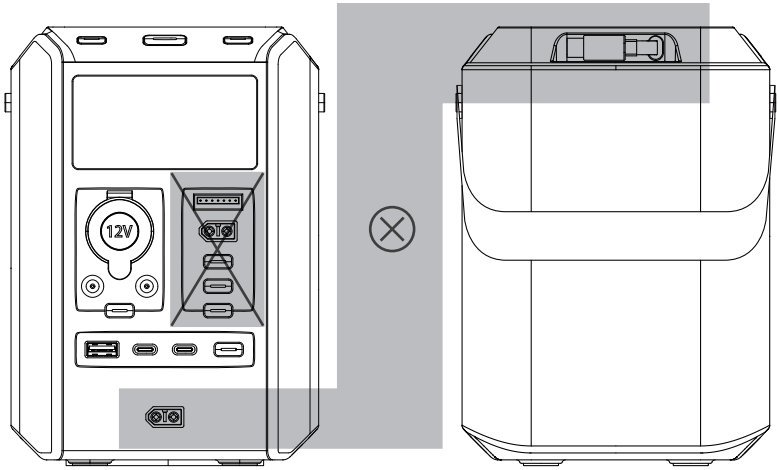
Charge-only mode: USB-C1 input and XT60 PV input are mutually exclusive; all other ports remain available.

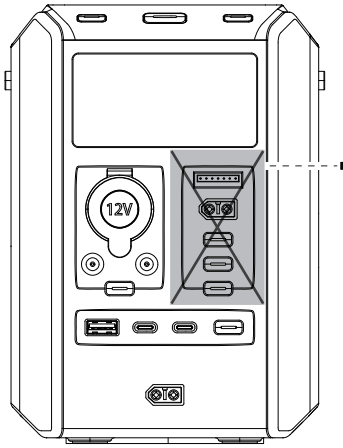


Pass-through Charging

Pass-through Charging

Pass-through charging mode: USB-C1 input and XT60 PV input are mutually exclusive, multi-function DC output is disabled, all other ports remain available.





No Multi-function DC
Output During Charging

Specifications

Specifications

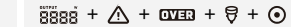
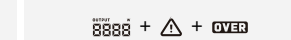
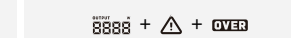
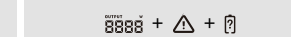
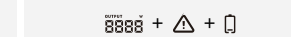
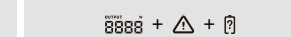
DC Output	
Cigarette Lighter Output	12V⎓10A 120W in Total
DC 5521 Output×2	
USB-A Output	5V⎓3A; 9V⎓2A; 12V⎓1.5A 18W Max
USB-C1 Output	5V⎓3A; 9V⎓3A; 12V⎓3A; 15V⎓3A; 20V⎓3A 60W Max
USB-C2 Output	5V⎓3A; 9V⎓3A; 12V⎓1.5A 18W Max
USB-C3 Output	5V⎓3A; 9V⎓3A; 12V⎓3A; 15V⎓3A; 20V⎓5A; 28V⎓5A 140W Max
Multi-function DC Output	
XT60 Output	5-30V⎓0.3-5A 100W Max
LiPo/Li-Ion/LiFe/LiHv: 1~6S	Normal Charge/Balance Charge/Storage Charge (Operate on APP)
NiMH/NiCd: 1~15S	Normal Charge/Repeat Charge(Operate on APP)
Pb: 2~24V: 3/6/12S	Normal Charge/AGM Charge(Operate on APP)
Small DC-powered Device	DC Power Charge(Operate on APP)

Specifications

Specifications

DC Input	
Cigarette Lighter Input(XT60 Port)	12-15V⎓5A Max
PV Input(XT60 Port)	6-24V MPPT: 6-24V⎓5A Max 120W Max
USB-C1 Input	5V⎓3A; 9V⎓3A; 12V⎓3A; 15V⎓3A; 20V⎓3A 60W Max
USB-C3 Input	5V⎓3A; 9V⎓3A; 12V⎓3A; 15V⎓3A; 20V⎓5A; 28V⎓5A 140W Max
Battery	
Battery Type	LiFePO4
Battery Capacity	288Wh(19.2V/15Ah)
Cycle Lifespan	3000 cycles@80% DOD
Environment	
Operating Temperature	0–40℃ (32–104℉)
Operating Humidity	10 to 90% non-condensing
Storage Temperature	–20–60℃ (–4–140℉)
Storage Humidity	5 to 95% non-condensing
Physical	
Light Strip Power	3W
Dimension	Approx. 138.7*134.3*190.3mm (5.46*5.29*7.49in)
Net Weight	Approx. 2.7kg (5.95lb)

Error Code&Trouble Shooting

Error Code	Status	Cause	Solution
E010	 flashing, no output.	Cigarette lighter output overload or short circuit.	Press the cigarette lighter and 5521 DC output button to restore.
E011	flashing, no output.	USB-A output overload or short circuit.	Press the USB output button to restore.
E012	flashing, no output.	USB-C output overload or short circuit.	Press the USB output button to restore.
E013	flashing, no output.	Multi-function DC output short circuit.	Long press multi-function output button to restore.
E014	flashing, no output.	Multi-function DC output over voltage.	Long press multi-function output button to restore.
E015	flashing, no output.	Multi-function DC output undervoltage.	Long press multi-function output button to restore.
E016	 flashing, no output.	Multi-function DC output overload or over current.	Long press multi-function output button to restore.
E017	flashing, no output.	No battery connected to the multi-function DC output.	Connect the battery to the multi-function DC output port (XT60).
E018	flashing, no output.	Battery cell count setting error.	Set the correct cell count for the corresponding battery type according to the user manual.
E019	flashing, no output.	Battery pin header reversed or not inserted.	Turn the pin header around and reinsert them correctly.
E020	 flashing, no output.	System overload.	Long press cigarette lighter & 5521 DC output button to restore.
E021	 flashing, no output	Grid frequency abnormality in grid-tie or charging mode.	Allow the device to sit idle until the voltage returns to normal.
E022	 flashing, no output.	Inverter output low bus voltage protection.	Charge the device until the voltage returns to normal.
E023	 flashing	Battery total voltage too high.	Allow the device to sit idle until the voltage returns to normal.

Error Code&Trouble Shooting

Error Code	Status	Cause	Solution
E24	+ + flashing, no output.	Battery total voltage too low.	Charge the device until the voltage returns to normal.
E25	+ + flashing, no output.	High temperature of battery cell.	The device will automatically return to normal when the temperature returns to normal.
E26	+ + flashing, no output.	Low temperature of battery cell.	The device will automatically return to normal when the temperature returns to normal.
E27	+ + flashing, no output.	Charge over temperature.	The device will automatically return to normal when the temperature returns to normal.

If the issue persists, contact support.

Certification and Compliance

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

(1) Reorient or relocate the receiving antenna.

(2) Increase the separation between the equipment and receiver.

(3)Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

(4) Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.