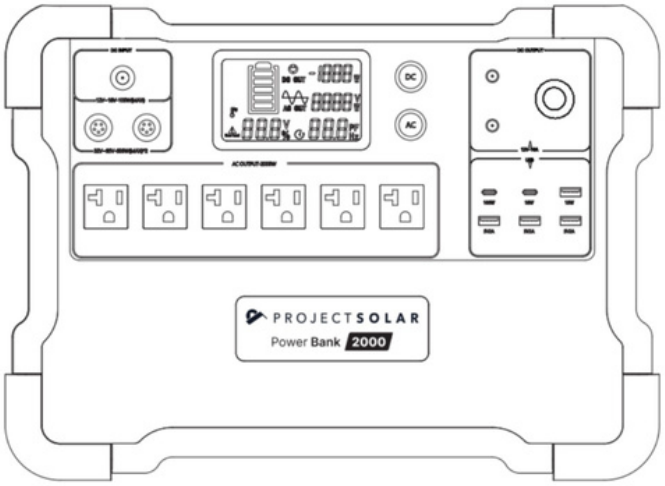
Power **Bank** 2000

Instruction & Troubleshooting Booklet



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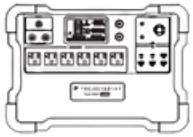
Product Packing List

The following items are included in your Power Bank 2000 package. If you are missing any standard components, please contact us.


Power Bank 2000


MC4 Solar Cables


AC Adapter

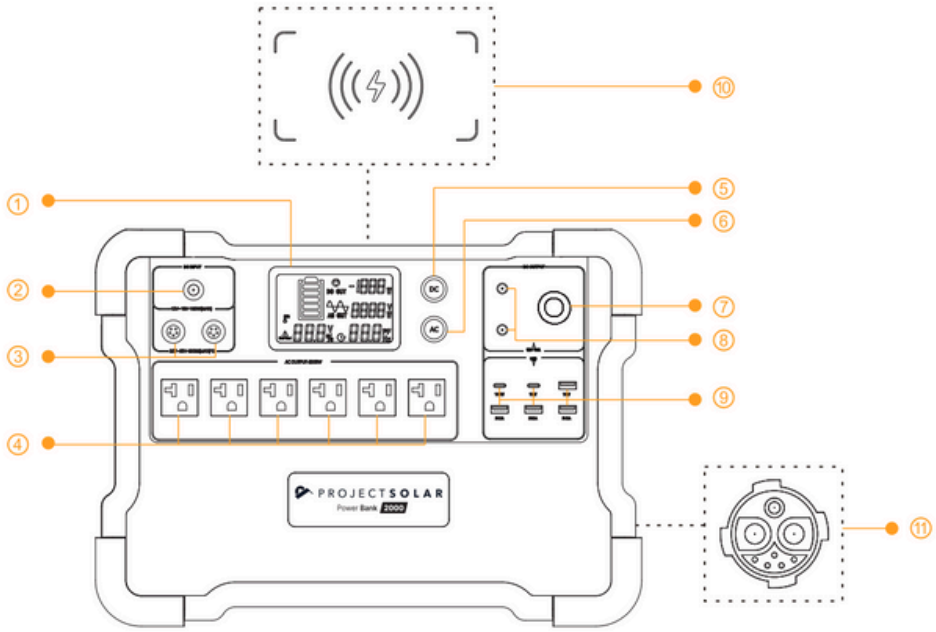

Vehicle Charger

Quantity	Item
1	Power Bank 2000
1	AC Charging Adapter
1	DC Input Cable (Vehicle Charger)
2	MC4 Solar Adapter
1	Accessory Pouch
1	Battery Rain Jacket

Product Specifications

Battery Capacity:	1,920 Wh
Rated Power:	2000W (4000W surge)
Depth of Discharge:	90%
Battery Life:	80% Capacity after 3,500 Cycles
Battery Type:	Lithium Iron Phosphate
Weight:	48.5lbs
Dimensions:	16.1in x 10in x 11.6in
Temperature Range (Charging):	0°C ~ 45°C / 32°F ~ 113°F
Temperature Range (Discharging):	-20°C ~ 45°C / -4°F ~ 113°F
Max Solar Input:	1200W
Protections:	Over-voltage, low-voltage, temperature, overload and AC short-circuit protection

Introduction of Parts and Functions



① LCD Display
② DC 12 ~ 18V Charging Port
③ DC 32 ~ 95V Charging Port
④ AC 100 ~ 120V Output
⑤ DC 12V/ USB/ Wireless Switch
⑥ AC 100 ~ 120V Switch
⑦ DC12V Auxiliary Output
⑧ DC12V (5525) Output
⑨ USB-A/ USB-C Ports
⑩ Wireless Charger
⑪ Battery Expansion Port

1	**LCD Display:**	The LCD screen on the front of the unit will display the remaining battery capacity, the input wattage, and the output wattage of your unit, as well as estimated time remaining with the devices connected.
2	**DC 12~18V Charging Port:**	This port is used to charge your Power Bank with a vehicle. To use it, plug in your DC Car Charger Adapter (included) to this port, and insert the other cable into your vehicle's cigar port.
3	**DC 32~95V Charging Ports:**	To charge your Power Bank with your AC Adapter or solar panels, you'll need to use at least one of these two ports. It is possible to use both ports at once to "fast charge" the unit, as long as the voltage requirements are met. Two separate charging sources (i.e. a solar panel and an AC Adapter) can be used simultaneously.
4	**AC 110-120V Output Ports:**	The AC outputs on this unit function similarly to a home's standard AC outlet. Appliances/devices that use an AC 110-120V plug can be powered with one of these 6 ports (i.e. refrigerator, microwave, coffee maker, etc).
5	**DC Power Button:**	This button is used to turn on/off the DC output ports, including the cigar port, USB-A ports, USB-C ports, and 5525 ports.

6	**AC Power Button:**	This button is used to turn on/off the unit's AC inverter and AC output ports.
7	**DC 12V Auxiliary Output/Cigar Port:**	This output functions similarly to a vehicle cigar port.
8	**DC 5525 Outputs:**	The DC 5525 port is a fairly common DC connection type. The port is 5.5mm in diameter, with a 2.5mm-sized pin in the middle. Some devices that use this port may include wifi routers, camera equipment, speakers, and more.
9	**USB Ports:**	This unit includes 2 USB-C type ports, and 4 USB-A type ports. These can be used to easily charge smartphones, smartwatches, tablets, and other devices.
10	**Wireless Phone Charger:**	Smartphones with wireless charging capability can be placed on the top of the unit for wireless charging.
11	**Battery Expansion Port:**	The port on the side of the unit is used to connect optional Expansion Packs. If you order an Expansion Pack 3000 from us, it will include a cascade cable to connect the two units.

Operating Instructions

Before Using	Before using your Power Bank for the first time, we recommend charging it. For the safety and longevity of the battery, this product will not be delivered fully charged.
Turning on/off the AC Output	To turn on the unit's AC output, press and hold the "AC" button until the "**AC OUT**" icon appears on the LCD display. The AC inverter has now been turned on and the 110-120V outlets can be used. To turn off the AC output, simply press and hold the "AC" button again until the "**AC OUT**" icon is no longer illuminated.
Turning on/off the DC Output	Turning on and off the unit's DC outputs uses the same process as the AC outputs: press and hold the "DC" button until the "**DC OUT**" icon appears on the LCD display. Press and hold the "DC" button again until the "**DC OUT**" icon disappears to turn off the DC output.

Charging with the AC Charger

To charge the unit with the included AC charging adapter, find the inverter box component (packaged in its own box) and the wall adapter (it has a standard 3-pronged plug on one end).

Connect the end of the wall adapter *without* prongs to the corresponding port on the inverter box. Insert the pronged end into a standard 110-120V AC wall outlet or generator outlet.

Finally, locate the remaining open end--a metal circle with five pins inside--and insert it into one of the two DC 32~95 Charging Ports on the Power Bank (located on the upper right side, underneath the single DC 5521 port). A plug icon, the battery capacity icon, and the battery percentage will appear to show the charging status of the unit.

When your battery is fully charged, the red LED on the inverter box will turn off and the green LED will turn on. The inverter box will automatically shut off power to your unit.

Charging with the Vehicle Charger

To start, locate your DC vehicle charging adapter, which is packaged inside the accessory pouch. Insert the larger end into your vehicle's cigar port.

Insert the smaller end (a metal ring with a single pin in the center) into the corresponding DC 5521 port on your Power Bank. This port is located on the top left side of your Power Bank. A plug icon, the battery capacity icon, and the battery percentage will appear to show the charging status of the unit.

Charging with Solar Panels

If you're using Project Solar's 200W Portable Solar panels, utilize the included user manual to unfold the panels and remove the branched MC-4 cable from the attached pouch. Extend the easel stands on the underside of the panels to prop them up towards the sun.

Once your solar panels are set up, locate the MC-4 Adapter(s) in your Power Bank accessory pouch. One end of the adapter will have two branched connectors, and the other end will be a single connector.

Pair the branched MC-4 connectors from your solar panel to the corresponding connectors on your adapter. Insert the remaining open end into one of the two matching DC ports on the top left corner of your Power Bank.
A plug icon, the battery capacity icon, and the battery percentage will appear to show the charging status of the unit.

If you are connecting multiple solar panels in a string, make sure to follow the voltage/wattage requirements in your user manual.

Long-term Storage	To store your Power Bank long term, charge/discharge it to about 80%. Every six months, charge it to 100% and discharge it to 80% for further storage.
Accessing the Settings Menu	To access the quick settings menu, hold down the "AC" and "DC" buttons until the battery icon outline begins to flash. Then, quickly double-click the AC button. You can learn more about your Power Bank settings menu here: https://knowledge.projectsolar.com/power-bank-settings-menu
Performing a Factory Reset	To reset your Power Bank to its default factory settings, disconnect it from all devices/chargers and hold the "AC" button for 30 seconds. You will hear a short beep. If your Power Bank now shows a 0% battery percentage, you can discharge the unit completely or connect it to a charger. Doing this will re-sync the computer and resolve the issue.

Precautions & Misuse

1. Do not place this unit near heat sources, such as a fire or a heating furnace.
2. Do not immerse the unit in liquid or expose it to rain/wet conditions. If your unit is immersed in water, place it in a safe, open area, and keep away until it is completely dry. Once the unit is dry, DO NOT reuse it. Dispose of it correctly according to local regulations.
3. This unit's internal computer is susceptible to electromagnetic pulse. Do not operate or store it in a strong static electricity or electromagnetic environment.
4. Do not connect accessories, parts, or other units to this product, other than those provided by Project Solar. Please visit our website, www.shopprojectsolar.com, to purchase additional accessories and/or parts.
5. Do not stack heavy objects on this product.
6. Keep the air vents clear during use. Do not leave the device in an unventilated or dusty space.
7. Pests chewing through wires or water fluids coming into contact with electrical wiring can cause short circuiting.
8. Avoid impacts, falls, and violent vibrations. Our products are packed with top-rated foam padding to prevent any issues during shipment. To transport the unit yourself, make sure it is firmly secured. In the event of a major exterior impact, please stop using the device immediately and turn it off; then, contact Project Solar.
9. Strictly follow the temperature ratings for the unit in the user manual. Operating batteries at high temperatures can cause self-combustion. Low temperatures will degrade battery performance.

10. If there is a fire, contact emergency services immediately. If the device combusts, use extinguishing equipment in the following order: water/mist, sand, fire blanket, dry chemical extinguisher, and carbon dioxide fire extinguisher.
11. Do not spray or pour liquid/cleaning products on this unit. Use a dry cloth and/or compressed air to clean surfaces and ports.
12. Keep this product away from children and pets.

Troubleshooting

To troubleshoot your Power Bank, use the guide below. If these steps do not resolve your issue(s), contact our support team (phone: (801) 895-2646, email: support@projectsolar.com) for more information and assistance.

Error	Possible Cause(s)	Possible Solution(s)
Power Bank will not turn on	Interior battery power may be depleted	Charge the battery with a vehicle, wall outlet/generator, or solar panels
No AC output, even though "AC" is turned on	Overheating: battery too hot to operate	Disconnect all loads and move the battery to a cool, dry place. Wait for the temperature to go down before turning the unit on or re-connecting loads
	Overloaded: connected loads may exceed the rated power of the inverter (2000W)	Check the power of your loads. Decrease power draw as needed until it is within the correct parameters for the unit
	Over-voltage: the battery's current charge may be insufficient to provide energy to attached loads	Reduce loads and/or charge the unit
USB ports not working	DC power may not be turned on	Hold the "DC" button until the "**DC OUT**" icon appears

Wireless phone charger not charging phone	Phone incompatible with wireless charging	Consult your smartphone manufacturer to learn whether the device can be charged wirelessly
	DC Output may not be turned on	Hold the "DC" button until the "**DC OUT**" icon appears
	Phone case may be blocking connection	Remove phone case
Solar panels not charging unit	Cables may not be fully connected	Make sure all connections are secure
	Solar input voltage may be too high or too low	Check the rated input wattage of your solar panel(s). Decrease or increase input until it is within parameters
	Insufficient sunlight	Ensure the sun is out and the panels are not shaded

Contact Us

Phone: (801) 895-2646

Email: support@projectsolar.com

Business Hours: Monday-Friday, 8:00am - 6:00pm Mountain Time

Other Resources

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