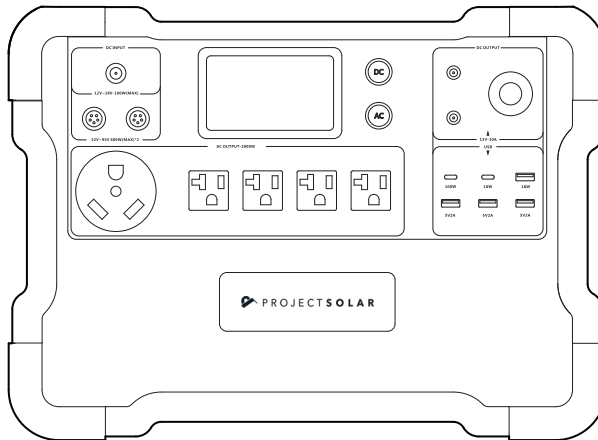




# PROJECT SOLAR

## POWER BANK 2000

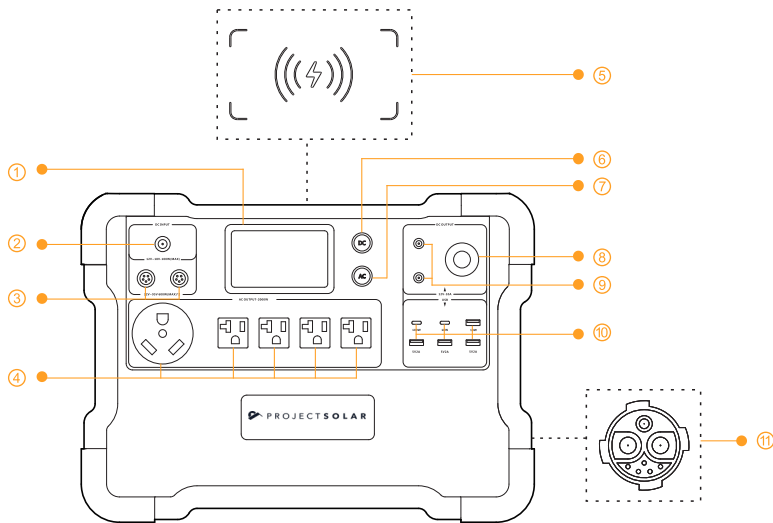


## USER MANUAL

Please read the user manual thoroughly before using.

[support@projectsolar.com](mailto:support@projectsolar.com)

# PRODUCT OVERVIEW



① LCD Display

② DC 12V~18V Charging Port

③ DC 32V~95V Charging Port

④ AC 100V~120V Output

⑤ Wireless Charger

⑥ DC 12V/USB/ Wireless Switch

⑦ AC 100V~120V Switch








⑧ DC12V Auxiliary Output

⑨ DC12V(5525)Output







⑩ USB-A/USB-C Ports

⑪ Battery Expansion Port



# SPECIFICATIONS

 Capacity	 Battery Type	 Charging Time	 Protections	 Temperature	 Dimension	 Net Weight
1920Wh (25.6V75Ah)	LiFePO4 Battery Retain 80%+ Original Capacity At 3500 Cycles	3.5~4H (Standard) 1.5~2H (Fast Charging)	Over-Voltage, Overheat, Overload, Short-Circuit, Self-Recovery	0°C~45°C/32°F~113°F (Charging) -20°C~45°C/-4°F~113°F (Discharging)	L16.1*W10*H11.6 in L409*W256*H297 mm	Around 48.5lb Around 22Kg

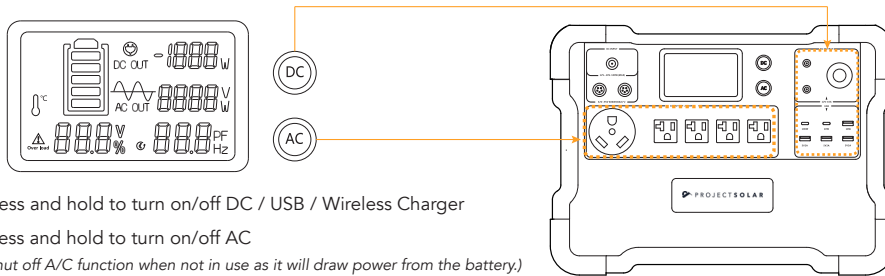
# OUTPUT SPECS

 AC Out*5	 USB-A*4	 USB-C*2	 DC 5525 Output*2	 Cigar Port*1	 Wireless Charger*1
Pure sine wave 100V~120V Rated 2000W	5V-2A*3 (5V,9V,12V, Max 18W)*1	(5V,9V,12V, Max 18W)*1 (5V,9V,12V,20V, Max 100W)*1	DC 12V-3A	DC 12V-10A	Max 15W

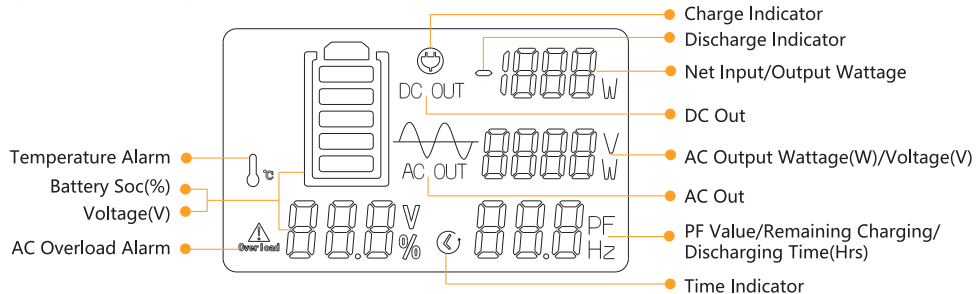
# INPUT SPECS

 GX16MF*2	 5521*1
DC Charging(32V~95V) Max 1200W(600W*2)	DC Charging(12V~18V) Max 100W

# HOW TO USE YOUR POWER BANK 2000



## LCD SMART DISPLAY



### Temperature Alarm Icon

The Power Bank 2000 can power your devices at temperatures ranging between -4°F to 113°F. (-20°C-45°C)  
 If the temperature exceeds 113°F (45°C), the temperature alarm will flash, and the unit may stop working.

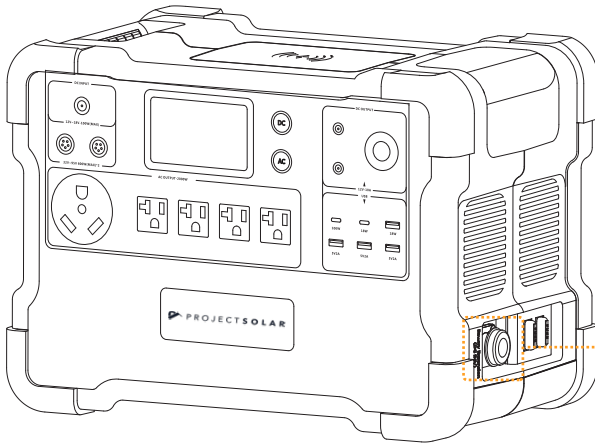


### AC Overload Alarm Icon

The Power Bank 2000 can power devices that consume less than 2000W.

If you try to power a device that consumes more than 2000W, the AC overload alarm will flash, and the power supply will stop working.

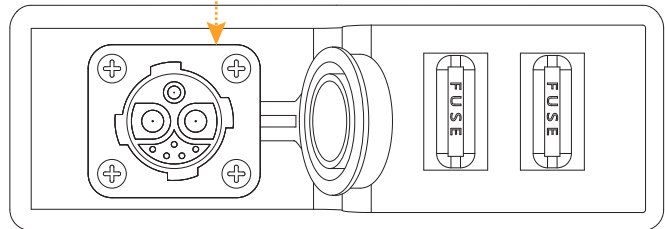
## EXPANDABLE BATTERY



Use the expansion cable to connect to an extra battery. This will increase the power capacity of your Power Bank 2000.

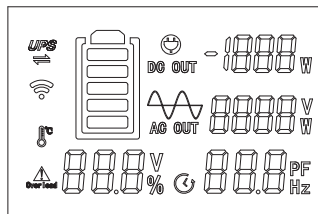
**Warning: Do not connect the expansion cable to any battery modules other than the Power Bank 2000 as this could damage the unit.**

Battery Expansion  
(DC 24V)

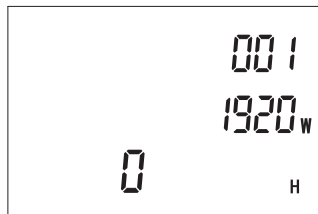


## HOW TO CALIBRATE YOUR POWER BANK 2000 TO CONNECT IT TO AN EXPANSION PACK 3000

- 1: Press and hold the "DC" button for seven (7) seconds in the OFF state to enter the settings menu.



- 2: "001" (Menu Item 1) should appear. This refers to the number of Expansion Packs, which is "0" by default. Short-press "DC" to increase this number, and short-press "AC" to decrease this number. Make sure this number matches the amount of Expansion Packs you are connecting.



- 3: Long-press "AC" to enter the Second Menu Item "002". This option refers to Screen Brightness. The default value is "L3".

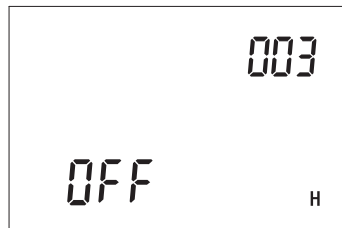
Short-press "DC" to increase the brightness, or short-press "AC" to decrease the brightness.



4: Long-press "AC" to enter Menu Item 3, "003".

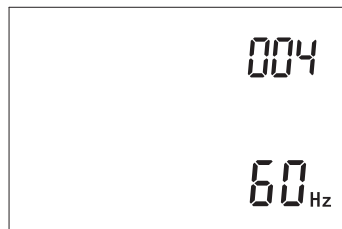
The default value of this item is OFF. This number governs automatic Shut Down Time (in hours) of the unit without any loads connected.

Short-press "DC" to increase the time, or short-press "AC" to decrease the time.

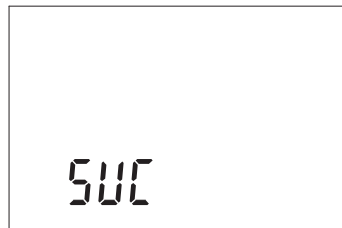


5: Long-press "AC" to enter Menu Item 4, "004".

This number refers to the AC Output Frequency. The default value is 60Hz, and should not be changed.



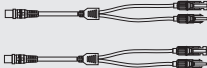



6: Press and hold "AC" to exit the Settings Menu. You will see the word "SUC" appear to show that your adjustments were saved successfully.






※ Without setting the correct number of Expansion Packs that you are connecting, your Power Bank will only display the power and usage time of itself, not the power and usage time of the combined units.

## PACKING LIST

			
POWER BANK 2000 x1	AC CHARGER x1	MC4 SOLAR CHARGING CABLE (LSMC4-5GX16) x2	CAR CHARGING CABLE x1

## RECHARGE TIME

 Wall Outlet	 Generator	 Vehicle Auxiliary Power Outlet
Approx. 3.5-4 Hours Approx. 1.5- 2 Hours (2 Adapters)	Approx. 3.5-4 Hours Approx. 1.5- 2 Hours (2 Adapters)	Approximately 20 Hours

✘ Includes one AC charger. Extra chargers are available for purchase on our website.

## SOLAR CHARGE TIME



Portable Solar Panel 200W



MC4 Solar Charging Cable

<b>200W (x1)</b>	<b>400W (x2)</b> <i>Recommended</i>	<b>600W (x3)</b>	<b>800W (x4)</b> <i>Recommended</i>	<b>1200W (x6)</b> <i>Recommended</i>
15 ~ 16 Hours	7 ~ 8 Hours	5 ~ 6 Hours	3 ~ 4 Hours	2 ~ 3 Hours

✘ Solar charging times may vary depending on weather conditions. The Power Bank 2000 has a built-in MPPT charge controller that supports 32 ~ 95V (15A PV charging up to 1200W).



# USING SOLAR PANELS TO CHARGE THE POWER BANK 2000

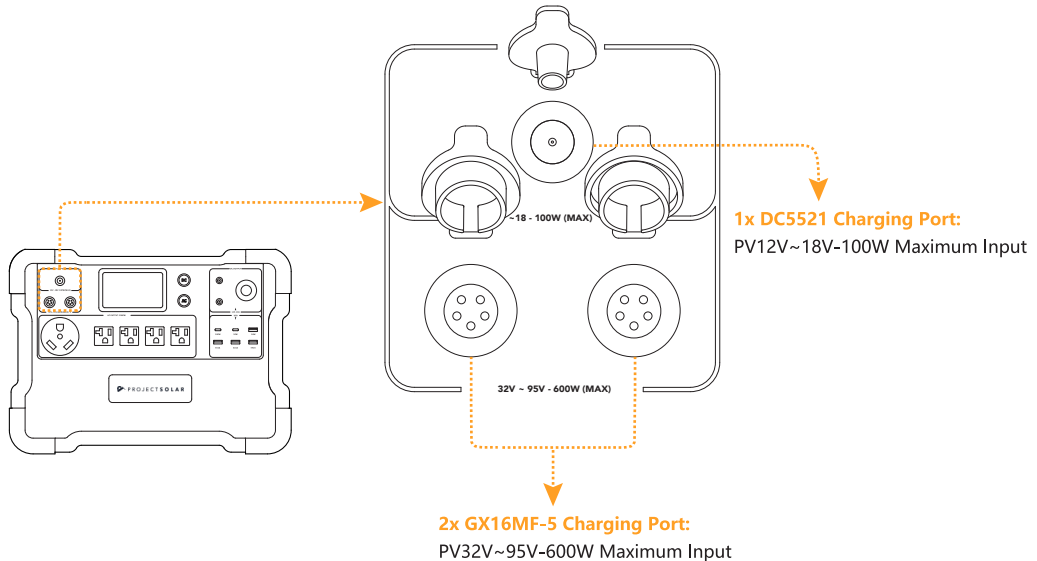
## 1. DC5521 Charging Port (1):

Solar PV / DC Power 12V ~ 18V, 100W Maximum. VOC (Open Circuit Voltage) of solar panel must be less than 25V.

## 2. GX16MF-5 Charging Port (2):

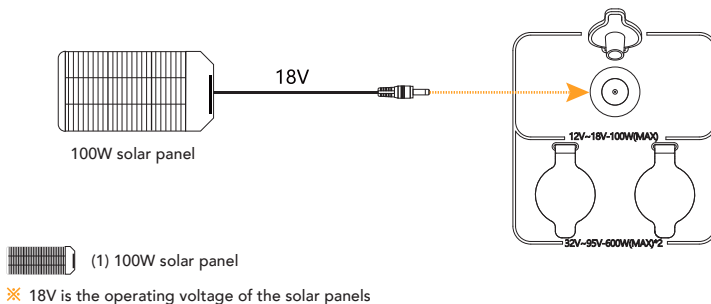
PV Operating Voltage 32V ~ 95V, 600W Maximum. VOC (Open Circuit Voltage) must be less than 95V, or the unit may be damaged. **Do not wire more than two (2) 36V solar panels in a series, or more than four (4) 18V solar panels in a series.**

✂ If you have any questions, feel free to contact us at [support@projectsolar.com](mailto:support@projectsolar.com)

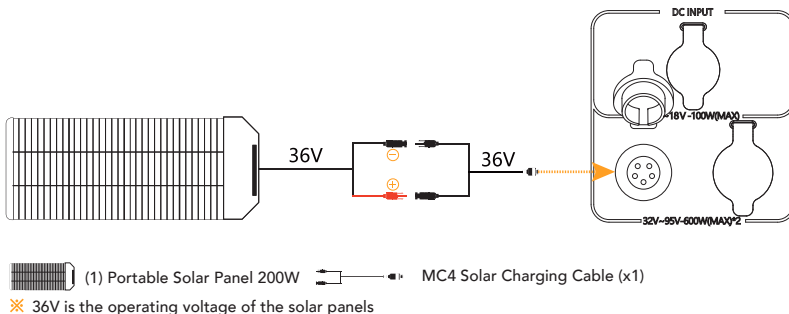


# USING SOLAR PANELS TO CHARGE THE POWER BANK 2000

## Using a 100W (18V) solar panel to charge the Power Bank 2000

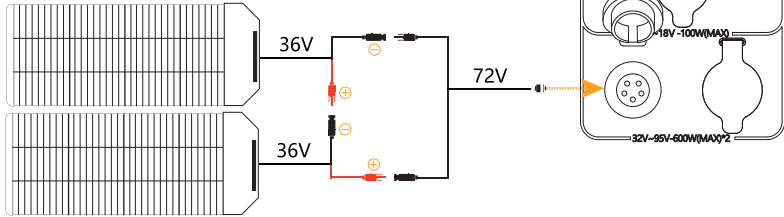


## Using our 200W (36V) Portable Solar Panel to charge the Power Bank 2000



# USING SOLAR PANELS TO CHARGE THE POWER BANK 2000

Using (2) Portable Solar Panels (200W, 36V x2)  
to charge the Power Bank 2000



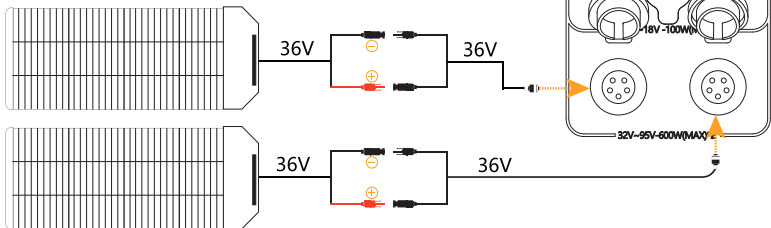
(2) Portable Solar Panels 200W



MC4 Solar Charging Cable (x1)

※ 72V is the total input voltage of the solar panels

Using (2) Portable Solar Panels (400W, 36V x2)  
and (2) MC4 Cables to charge the Power Bank 2000



(2) Portable Solar Panels 200W

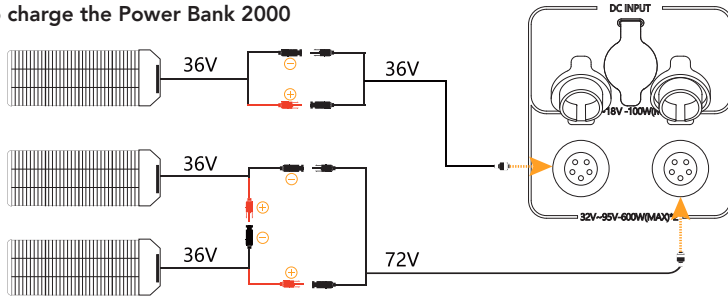


MC4 Solar Charging Cable (x2)

※ 36V is the operating voltage of each solar panel

# USING SOLAR PANELS TO CHARGE THE POWER BANK 2000

Using (3) Portable Solar Panels (600W, 36V x3)  
to charge the Power Bank 2000



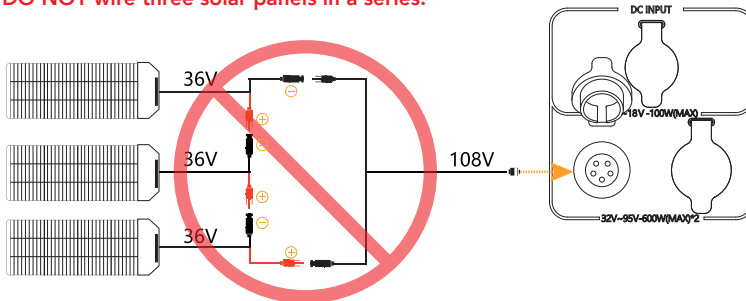
(3) Portable Solar Panels 200W



MC4 Solar Charging Cable (x2)

✧ First String operating voltage: 36V, Second String: 72V

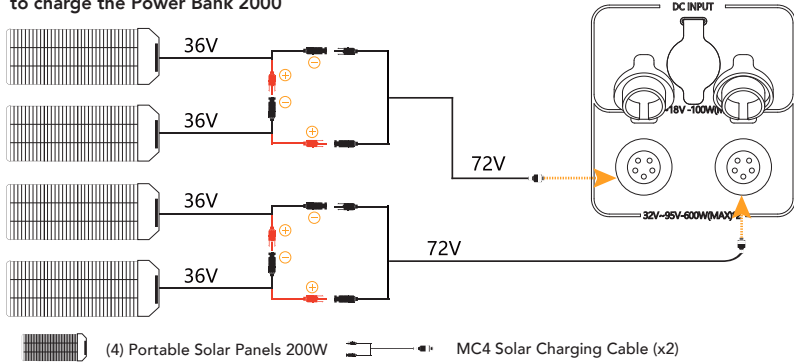
**DO NOT** wire three solar panels in a series.



✧ Each port **ONLY** works within the range of 32V~95V VOC. Exceeding 95V will damage the unit.

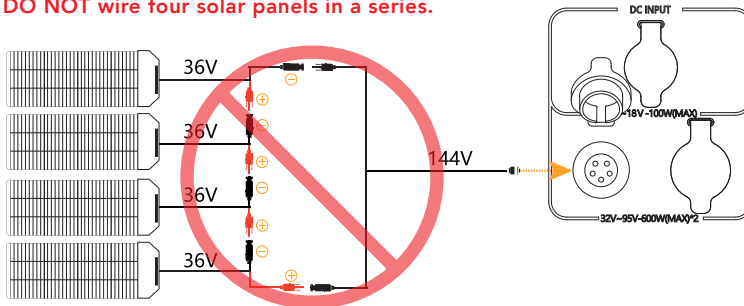
# USING SOLAR PANELS TO CHARGE THE POWER BANK 2000

Using (4) Portable Solar Panels (800W, 36V x4) and (2) MC4 Cables to charge the Power Bank 2000



✘ 72V is the operating voltage of each string

**DO NOT** wire four solar panels in a series.

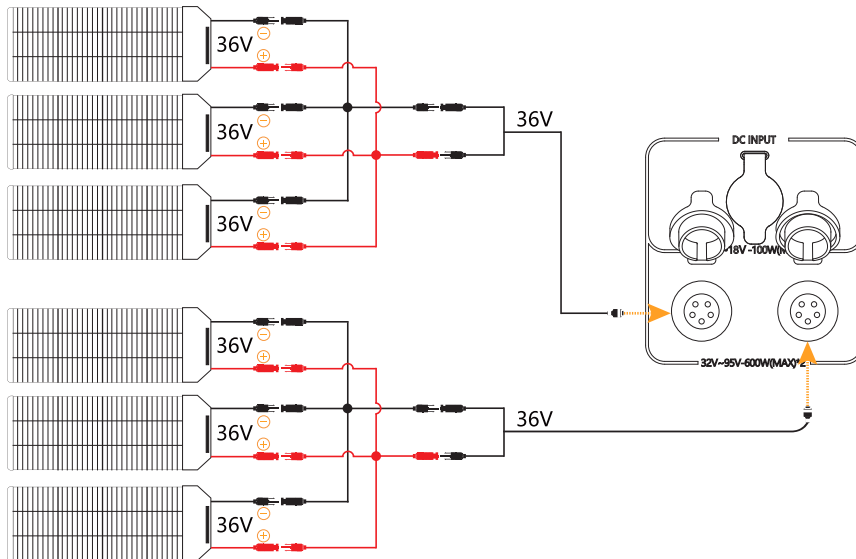


✘ Each port ONLY works within the range of 32V-95V VOC. Exceeding 95V will damage the unit.

# USING SOLAR PANELS TO CHARGE THE POWER BANK 2000

Using (6) Portable Solar Panels (1200W, 36V x6) to charge the Power Bank 2000

Incorporating Y Branch Cables (not included) to wire 6 solar panels in a series



(6) Portable Solar Panels 200W



MC4 Solar Charging Cable (x2)



Y Branch MC4 Charging Cable (+) x2



Y Branch MC4 Charging Cable (-) x2

✳ Utilizing Y-Branch Cables to string solar panels keeps the Operating Voltage within the required range.

## FAQS

### Q1: What kind of battery is used in the Power Bank 2000? How long can it last?

A: The Power Bank 2000 utilizes a high-quality, UL-certified automotive LiFePO4 battery. It can retain 80% of its original capacity at 3500 complete charge cycles.

### Q2: What devices can the Power Bank 2000 power?

A: The Power Bank 2000 can power most devices with a power consumption of less than 2000W.

### Q3: Can the Power Bank 2000 be used as an Uninterruptable Power Source (UPS)?

A: No, this unit should not be used as a UPS, as it can be damaged.

### Q4: Can the Power Bank 2000 be charged while discharging?

A: Yes, the Power Bank 2000 can run devices while being charged. The battery will eventually deplete if the power discharge rate is greater than the charging rate.

### Q5: How do I calculate the Power Bank 2000 run-time?

A: Running time = Total Capacity ( 1920Wh ) x Depth of Discharge ( 0.85 ) / Loading Power ( in watts ).

### Q6: Can I use and charge the Power Bank 2000 indoors?

A: Yes, the Power Bank 2000 is safe to use and charge indoors.

### Q7: Does the Power Bank 2000 have a built-in charge controller?

A: Yes, there are two independent 600W (PV 32V-95V) MPPT charge controllers inside. There's also a 100W (PV 18V) MPPT charge controller. The VOC (Open Circuit Voltage) should not exceed 95V.

### Q8: How do I store the Power Bank 2000?

A: To store, turn off the unit and place it in a dry, ventilated place at normal room temperature. Do not place the unit near water sources and wet environments. For long-term storage and to prolong the battery's life, charge/discharge it to 80%. Every six months, charge to 100% and discharge to 80% for further storage.

## DISCLAIMER

Please read the user manual thoroughly before using this product, and keep this manual in a safe place for future reference. Once you use this device, you are deemed to have understood, recognized, and accepted all terms and contents of this document. Failure to follow these instructions for proper setup, use, and care for the device can increase the risk of severe personal injury, death, or property damage. The user shall be responsible for their actions and all consequences resulting from failure to use this device in accordance with the *User Manual* or as authorized in Project Solar's current product literature. In compliance with laws and regulations, Project Solar reserves the right change these terms and conditions at any time without prior notice. If the *User Manual* is subject to revisions, the revised terms and conditions shall be posted on our website immediately; please visit our website to stay informed of any changes.

# WARNING

## PRECAUTIONS & MISUSE

- DO NOT place this unit near heat sources, such as a fire or a heating furnace.
- 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.
- This unit's internal computer is susceptible to electromagnetic pulse. Do not operate or store it in a strong static electricity or electromagnetic environment.
- 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](http://www.shopprojectsolar.com), to purchase additional accessories and/or parts.
- Do not stack heavy objects on this product.
- Keep the air vents clear during use. Do not leave the device in an unventilated or dusty space.
- Pests chewing through wires or water fluids coming into contact with electrical wiring can cause short circuiting.
- 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.
- 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.
- 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.
- Do not spray or pour liquid/cleaning products on this unit. Use a dry cloth and/or compressed air to clean surfaces and ports.
- Keep this product away from children and pets.



## DISPOSAL

This product contains dangerous battery chemicals that are prohibited from being thrown away in the ordinary trash. Here's how to properly dispose of your product in a safe way:

1. Read specific regulations and guidelines for battery disposal in your area.  
Learn More: <https://www.epa.gov/recycle/used-household-batteries>
2. Completely discharge the battery before disposing of it. Once discharged, the battery shouldn't start again.
3. Put the battery in a designated battery recycling box. If the battery can't be completely discharged due to product malfunction, don't put the battery in the designated box. Instead, contact a professional battery recycling company for proper disposal.

## EXCLUSIONS

Project Solar's warranty does not apply to units that are misused, abused, modified, damaged by accident, or used for anything other than normal consumer use as authorized in Project Solar's current product literature.

## CUSTOMER SUPPORT:

Email: [support@projectsolar.com](mailto:support@projectsolar.com)

Customer Support Chat: [www.ProjectSolar.com](http://www.ProjectSolar.com)





PROJECT **SOLAR**

..... [support@projectsolar.com](mailto:support@projectsolar.com) .....