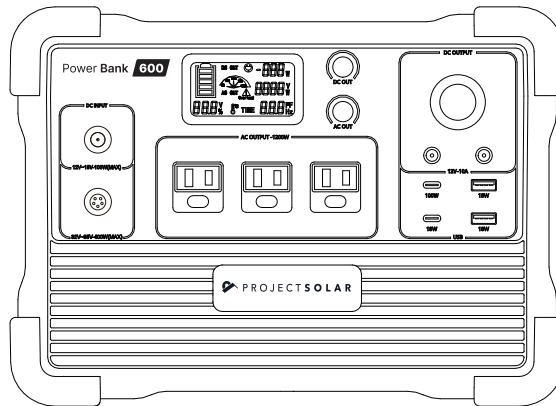




POWER BANK 600W

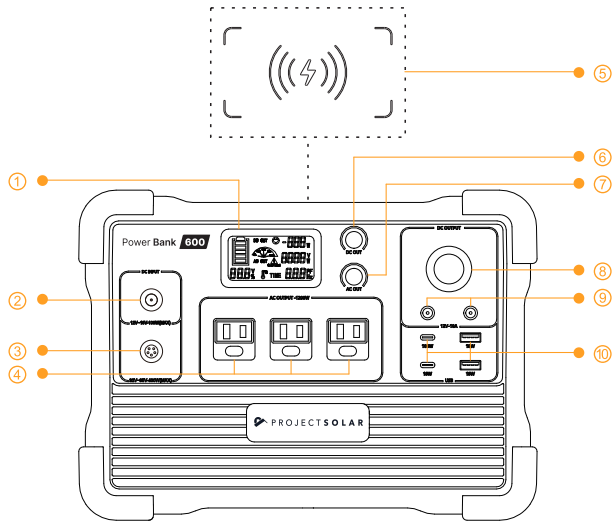


USER MANUAL

Please read the user manual thoroughly before using.

..... support@projectsolar.com

PRODUCT FEATURES



① LCD Display

⑤ Wireless Charger

⑨ DC12V (5525) Output

② DC 12V ~ 18V Charging Port

⑥ DC 12V/ USB/ Wireless Switch

⑩ USB-A/ USB-C Ports






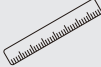

③ DC 32V ~ 95V Charging Port

⑦ AC 100V ~ 120V Switch







④ AC 100V ~ 120V Output

⑧ DC12V Auxiliary Output



SPECIFICATIONS

						
Capacity	Battery Type	Charging Time	Protections	Temperature	Dimensions	Net Weight
614Wh (25.6V, 24Ah)	LiFePO4 Battery Retains 80% + Original Capacity at 3500 Cycles	Approx 1.5 hours by Solar Panel(s) Approx. 2.2 hours by AC charger	Overvoltage, Overheat, Overload, Short-Circuit, & Self-Recovery	0°C ≈ 45°C/ 32°F ~ 113°F (Charging) -20°C ≈ 45°C/ -4°F ~ 113°F (Discharging)	L11.7 x W7.8 x H8.5 in L298 x W199 x H215 mm	Approx. 20lb Approx. 9.4kg

OUTPUT SPECS

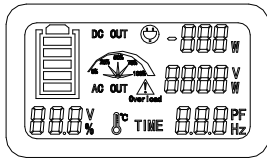
					
AC Out (3)	USB-A (2)	USB-C (2)	Cigar Port (1)	DC 5525 Output (2)	Wireless Charger (1)
Pure Sine Wave 100V ~ 120V Rated 1200W	(1) 5V - 2A (1) 5V, 9V, 12V* Max. 18W	(1) 5V, 9V, 12V Max. 18W (1) 5V, 9V, 12V, 20V Max. 100W	DC 12V - 10A	DC 12V - 5A	Max 15W

INPUT SPECS

	
GX16MF (1)	5521 (1)
DC Charging (32V~ 95V) Max 400W	DC Charging (12V ~ 18V) Max 100W

 Does not support charging from both input ports at the same time.

HOW TO USE YOUR POWER BANK 600W

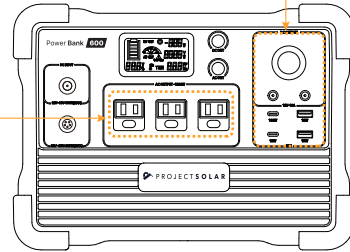


Press and hold to turn on/off DC/USB/Wireless Charger

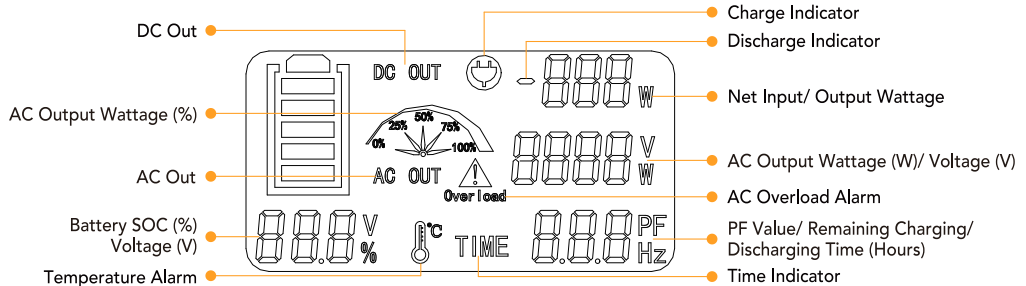


Press and hold to turn on/off AC

(Please turn off the AC function if there is no AC load on the unit.)



LCD SMART DISPLAY



Temperature Alarm Icon

The Project Solar 600W Battery Kit can power your devices at temperatures ranging between -4°F to 113°F . ($-20 - 45^{\circ}\text{C}$)

If the temperature exceeds 113°F (45°C), the temperature alarm will flash, and the unit may stop working.



AC Overload Alarm Icon

The Project Solar 600W Battery Kit can power devices that consume less than 1200W.

If you try to power a device that consumes more than 1200W, the AC overload alarm will flash, and the power supply will stop working.

PACKING LIST



(1) Project Solar Power Bank 600W



(1) AC Charger



(1) MC4 Solar Charging Cable LSMC4-5GX16



(1) Car Charging Cable



(1) Anderson Solar Charging Cable

RECHARGE TIME



Wall Charger

Approx. 2.2 Hours



Electric Generator

Approx. 2.2 Hours



Car Charger

Approx. 7 Hours

SOLAR CHARGE TIME



Portable Solar Panel 200W



MC4 Solar Charging Cable

200W (x1)

3 ~ 4 Hours

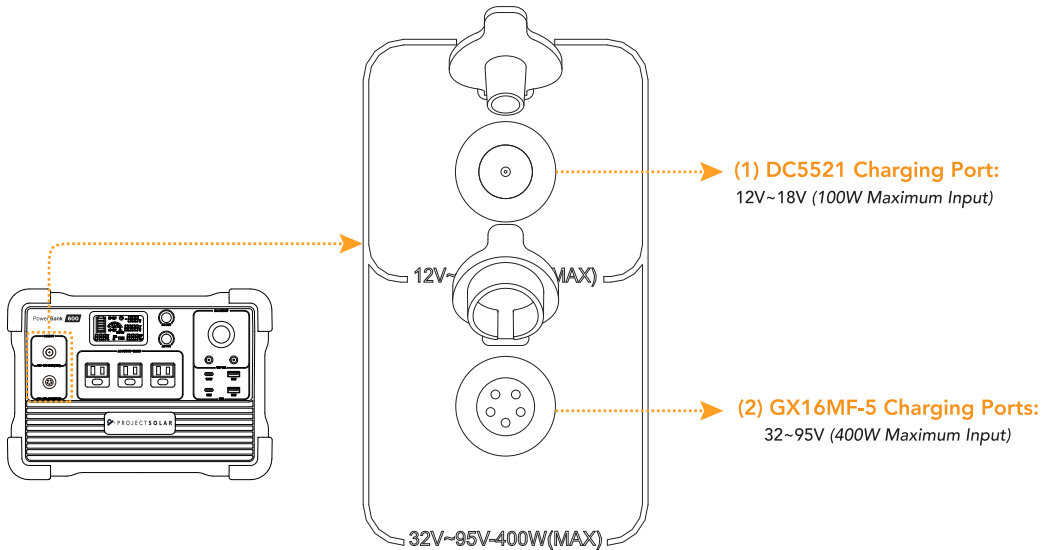
400W (x2)

1.5 ~ 2.5 Hours

※ Solar charging times may vary depending on weather conditions. The Power Bank 600W has a built-in MPPT charge controller that supports 32 ~ 95V (15A PV charging up to 400W).

USING SOLAR PANELS TO CHARGE THE POWER BANK 600W

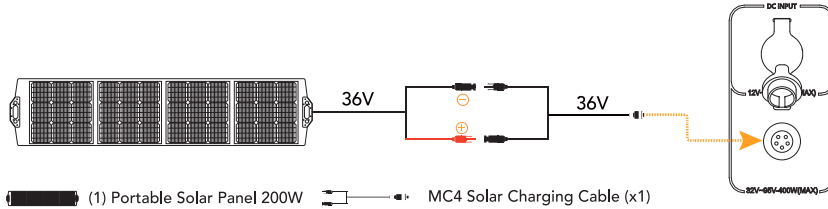
1. **1x DC5521 Charging Port:** The charging port can handle a DC range of 12V~18V, 100W maximum. If using a solar panel, VOC (open circuit voltage) of solar panel must be less than 25V, otherwise it will damage the unit.
2. **2x GX16MF-5 Charging Ports:** The charging ports can handle a PV (operating voltage) range of 32V~95V, 400W maximum; VOC (open circuit voltage) of solar panel / array must be less than 95V, otherwise it will damage the unit!
DO NOT wire more than two 36V (AKA 24V) solar panels in a series.
(36V stands for Vmp, the operating voltage of solar panel.)
3. If you have any questions, please feel free to contact us at: support@projectsolar.com.



⚠ **Does not support charging from both input ports at the same time.**

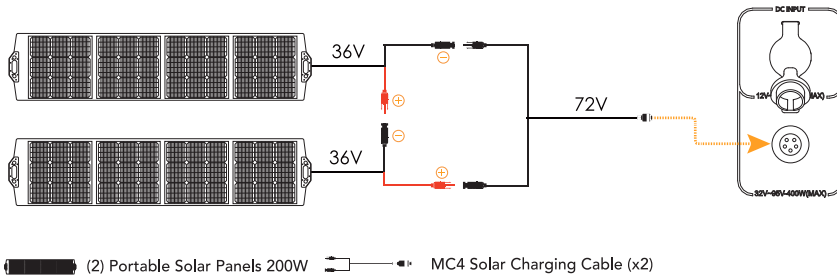
USING SOLAR PANELS TO CHARGE THE POWER BANK 600W

Using the Portable Solar Panel 36V (200W) to charge the Power Bank 600W



※ 36V is the operating voltage of the solar panels

Using (2) Portable Solar Panels 36V (400W) to charge the Power Bank 600W



※ 36V is the operating voltage of the solar panels

FAQS

Q1: What kind of battery is used in the Power Bank 600W? How long can it last?

A: The Power Bank 600W Battery Kit 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 600W power?

A: The AC output ports can power appliances which use less than 1200 watts of electricity. However, inductive types of loads such as freezer, fridge, compressor, motor require a much higher power to start (approx. 3 - 7 times larger than its rated power). The DC output ports can supply a maximum DC power of 120W (12V@10A).

Q3: Can the Power Bank 600W be used as a UPS?

A: No, the UPS function is not supported.

Q4: Can the Power Bank 00W be charged while discharging?

A: Yes, the Power Bank 600W Battery Kit can run devices while being charged. The battery will eventually run out if the discharging is greater than the charging during the pass-through.

Q5: How do I calculate the Power Bank 600W run-time?

A: Running time = Total Capacity (614Wh) * 0.85 (Depth of Discharge)/ Loading Power (Watts)

Q6: Can I use and charge the Power Bank 600W indoors?

A: Yes, the Power Bank 600W Battery Kit is safe to use and charge indoors.

Q7: Does the Power Bank 600W have a built-in MPPT controller?

A: Yes, The Power Bank 600W Battery Kit has a built-in MPPT charge controller, which supports 12V-18V (max 100W) or 32V-95V (max 400W) PV input (95V).

Q8: How do I store the Power Bank 600W?

A: Turn off the unit and store 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, we recommend discharging it to 30% and then charging it back up to 60% every three months.

WARNING

1. **DO NOT PLACE** the device near heat sources, such as a fire or a heating furnace.
2. **DO NOT IMMERSE IN ANY LIQUID**, or expose the unit to rain or wet conditions.
3. **DO NOT USE** the battery in a strong static electricity or electromagnetic environment.
4. **DO NOT DISASSEMBLE** or puncture the product with sharp objects in any way.
5. **SHORT CIRCUITS CAN BE CAUSED BY:** vermin or pests chewing through wires; water or other fluids coming into contact with electrical wiring.
6. **DO NOT USE ACCESSORIES OR PARTS** other than those provided by Project Solar. Please visit our website www.projectsolar.com, or reach our support team for a complete list of accessories and parts.
7. **STRICTLY FOLLOW THE AMBIENT TEMPERATURE** for use in the user manual. If the temperature is too high, the battery can potentially result in self-combustion and will burst into flames, which can cause widespread damage. If the temperature is too low, the performance of the battery will be seriously degraded, and it may even fail to meet the normal use requirements.
8. **DO NOT STACK** heavy objects on this product.
9. **DO NOT BLOCK** the air vents during use, or leave the device in a non-ventilated or dusty space.
10. **PLEASE AVOID IMPACTS**, fall off, and violent vibration. Please turn off the device immediately and stop using it in the event of major exterior impact. Please fasten the unit firmly during transportation to avoid vibration and impact.
11. **IF YOUR DEVICE GETS IMMERSSED IN WATER**, place the unit in a safe open area and keep away from the unit until it is completely dry. The dried unit should not be reused and should be disposed of properly according to the local regulation. If the device catches fire, use the fire extinguishing equipment in the following the recommended order: water or mist, sand, fire blanket, dry chemical, carbon dioxide fire extinguisher.
11. **CLEAN THE SURFACE OF THE DEVICE** with a dry cloth — not a wet one.
12. **PLACE THE DEVICE WITH CARE** to prevent the product from getting damaged due to falling. If the unit does fall, turn it off immediately, and keep it away from crowds or combustibles. Dispose of it following laws and regulations.
13. **KEEP OUT OF REACH** 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. When conditions permit, please be sure to completely discharge the battery of the unit, and then put the product in the designated battery recycling box. This product contains batteries. Batteries are dangerous chemicals and are strictly prohibited from being disposed of in ordinary trash. For details, please follow local laws and regulations on battery recycling and disposal.
2. If the battery cannot be completely discharged due to the failure of the product itself, please do not dispose of the battery directly in the battery recycling box. Contact a professional battery recycling company for further disposal.
3. The battery will not be able to start after being over-discharged. Please dispose of it according to the principal of 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.

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.

CUSTOMER SUPPORT:

Email: support@projectsolar.com

Customer Support Chat: www.ProjectSolar.com



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