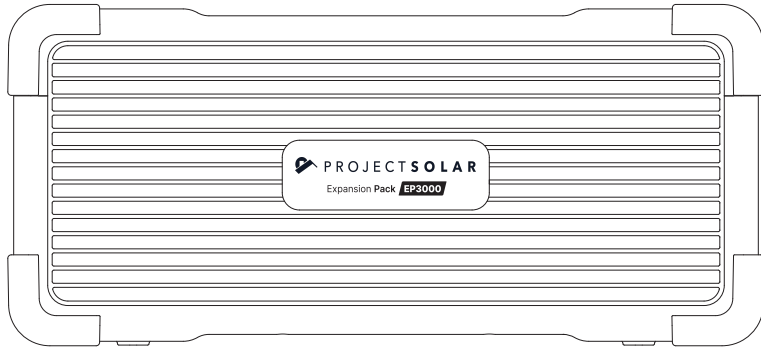




PROJECT SOLAR

EXPANSION PACK EP3000

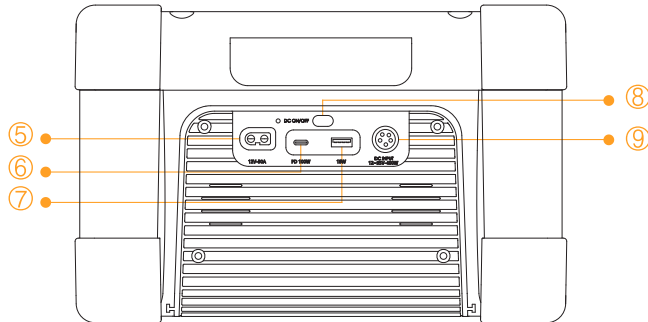
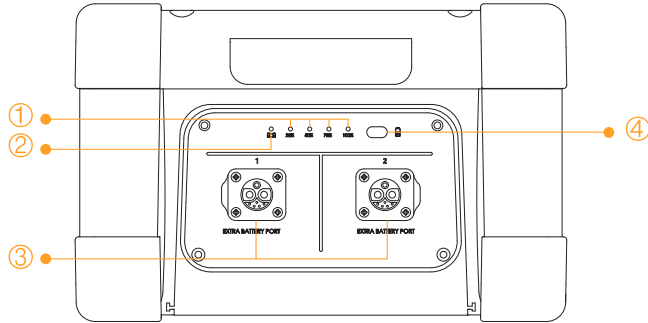


USER MANUAL

Please read the user manual thoroughly before using.





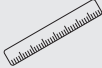

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PRODUCT FEATURES






- ① LED Capacity Indicator
- ② Indicator Under Cascade Status
- ③ Battery Expansion Port
- ④ Power Display Switch
- ⑤ DC12V XT60 Output
- ⑥ USB-C Ports
- ⑦ USB-A Ports
- ⑧ DC Button
- ⑨ DC 12V ~ 95V Charging Port


SPECIFICATIONS

 Capacity	 Battery Type	 Protections	 Temperature	 Dimensions	 Net Weight
3072Wh (25.6V, 120Ah)	LiFePO4 Battery Retains 80%+ Original Capacity at 3500 Cycles	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)	L17.3 x W12.2 x H7.8 in L441 x W312 x H200 mm	Approx. 57lb Approx. 26kg


OUTPUT SPECS

 XT60 Output (1)	 USB-A (1)	 USB-C (1)
DC 12V - 30A	(1x) 5V, 9V, 12V Max. 18W	(1x) 5V, 9V, 12V, 20V Max. 100W







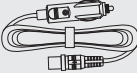

INPUT SPECS

 GX16MF-5 (1)
DC Charging (12V~95V) Max 400W

CASCADE FUNCTION

 Cascade Ports (2)
Can be connected with devices that have a DC 24V Cascade Port

PACKING LIST

			
<p>Expansion Pack EP3000</p>	<p>(1) Cable from XT60 to Cigar Port and 5525 Port</p>	<p>(1) MC4 Solar Charging Cable (LSMC4-5GX16)</p>	<p>(1) M25 Cascade Cable</p>
			
<p>(1) Solar Cable with 5521 Connector</p>	<p>(1) Anderson Solar Charging Cable</p>	<p>(1) Car Charge Cable with GX16MF-5 Connector</p>	<p>(1) 12V Alligator Clips</p>

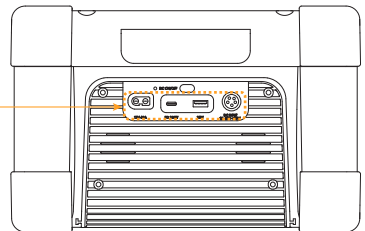
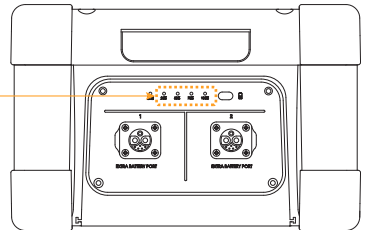
HOW TO USE THE EXPANSION PACK



Light press to show battery capacity



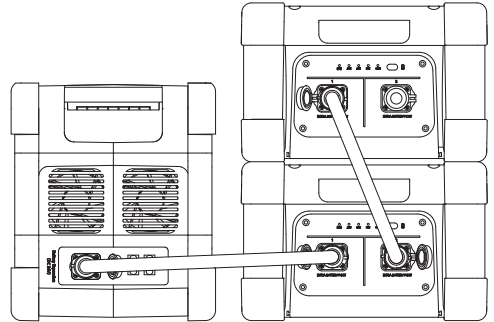
Hold press to turn on/off DC (USB/ XT60 12V)



⚠ The operating temperature range for the Expansion Pack is -4°F ~ 113°F (-20 ~ 45°C).
If the operating temperature is not within this range, it will fail to work.

HOW TO CONNECT EXPANSION PACK WITH POWER BANK IN CASCADE

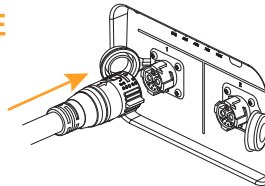
1. First, confirm the battery volume for both the Expansion Pack and Power Bank to ensure their volume difference is no more than 10%. *If the difference is greater than 10%, it will take a longer period of time to cascade successfully.*
2. Connect the Power Bank with port "1" on the Expansion Pack with a 24V cascade connecting cable. If you want to connect two Expansion Packs, you can connect port "2" on the first pack to port "1" on the second pack. *(As shown on the right.)*
3. After the connection is completed and the indicator turns red, it means that the power discrepancy is too large, and the battery is being balanced. *Reducing the battery difference between the Power Bank and extra Expansion Pack before cascading can reduce the equalization time.* When the display light is green, it means that the cascade is successful and can be used normally.



HOW TO USE THE CASCADE CABLE

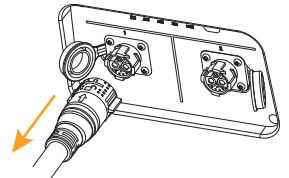
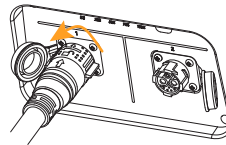
INSERT CABLE

Insert the cascading cable, arrow-side facing upwards. Push the cable inward aligned with the hole and insert into place until you hear a "click."



REMOVE CABLE

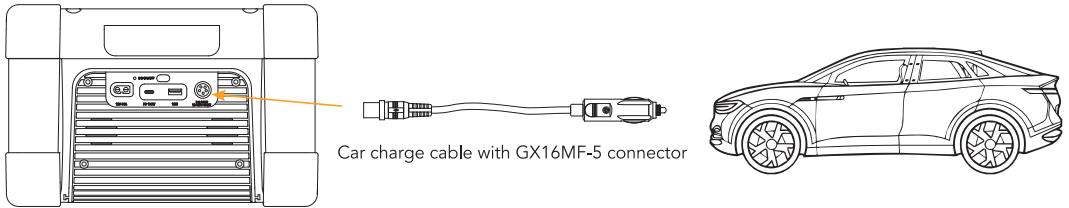
To pull out the cascading cable, hold the protrusions on both sides and turn to the left. Then pull out at the same time.







CONSIDERATIONS DURING CASCADING PROCESS

1. Protections may be triggered while you are using high power (*higher than 1600W*) for a long time (over 1.5 hours) under high temperatures. To continue in these conditions, use a high-current fuse.
2. After the host is cascaded with the extra battery pack, there will be some deviations in the display.
3. During charging, battery capacity is greater with the expandable battery pack.
4. After disconnecting the power station from the expandable battery pack, fully charge the Batter Bank (the charger will show a green light) and then use it after calibration.

HOW TO CHARGE THE EXPANSION PACK EP3000



RECHARGE TIME

 Adapter	 Electric Generator	 Car Charger	 Power Bank
8-9 Hours	Approx. 8-9 Hours	Approx. 30 Hours	Charging time for 1pcs of Expansion Pack and Power Bank is 3.5 hours . Charging time for 2pcs of Expansion Pack and Power Bank is 5 hours .

SOLAR CHARGE TIME



Portable Solar Panel 200W



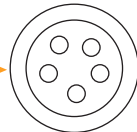
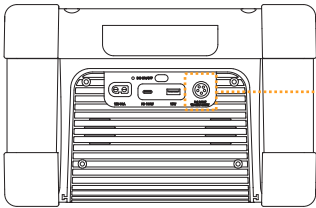
MC4 Solar Charging Cable

200W (x1)	400W (x2)
19-20 Hours	10-11 Hours

Note: The above data comes from a laboratory. Actual charging time depends on weather conditions.

USING SOLAR PANELS TO CHARGE THE EXPANSION PACK

GX16MF-5 Charging Port: PV(operating voltage) range 12V~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 series.** (The range 18V~36V refers to V_{mp} , which is the the operating voltage of the solar panel.)

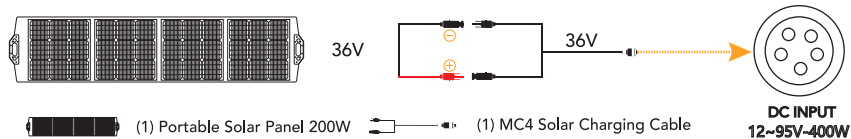


DC INPUT
12~95V-400W

(1) GX16MF-5 Charging Port:
PV12~95V (400W Maximum Input)

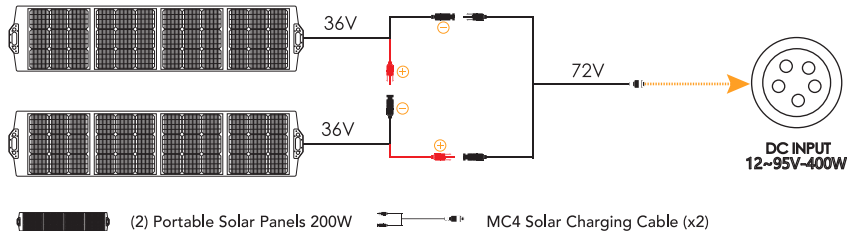
USING SOLAR PANELS TO CHARGE THE EXPANSION PACK

Using the Portable Solar Panel 36V (200W) to charge the Expansion Pack EP3000



※ 36V is the operating voltage of the solar panels

Using (2) Portable Solar Panels 36V (400W) to charge the 600W Solar Battery Kit



※ 36V is the operating voltage of the solar panels

FAQS

Q1: What type of battery is used in the Expansion Pack?

A: The Expansion Pack uses a high-quality, UL-certified, automotive LiFePO4 battery.

Q2: What models can the Expansion Pack be cascaded to?

A: The Expansion Pack uses a high-quality, UL-certified, automotive LiFePO4 battery.

Q3: Can the Expansion Pack be charged or discharged separately after cascaded?

A: Yes, but the charging/dischARGE power will not be shown on the display of Power Bank, and this will lead to the wrong battery volume showed on the battery display.

Q4: How to calculate the Expansion Pack running time?

A: Running Time = Total Capacity (3072Wh) * 0.85 (Depth of Discharge) / Loading Power (Watts)

Q5: Does Expansion Pack have built-in MPPT controller?

A: Yes, the Expansion Pack has a built-in MPPT charge controller, which supports 12V-95V (max 400W).

Q6: Why does the battery capacity of the Power Bank vary after cascading with the Expansion Pack?

A: After cascading, the battery capacity of the Expansion Pack will be balanced with that of Power Bank, which leads to the showing of inaccurate battery capacity during this process.

Q7: How many Expansion Packs can be cascaded to the Power Bank?

A: After cascading, the battery capacity of the Expansion Pack will be balanced with that of Power Bank, which leads to the showing of inaccurate battery capacity during this process.

Q8: How should the Expansion Pack be stored?

A: Please turn off the unit, and store it in a dry, ventilated place at normal room temperature. Do not place this unit near water sources or a wet/moist environment. For long-term storage, it is recommended to discharge the battery to 30% every three months and recharge it to 60% to prolong the battery life.

WARNING

1. **DO NOT PLACE** the device near heat source, 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 IMMERSUED 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 local regulations. If the device catches fire, use the fire extinguishing equipment in the following 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 batteries; batteries have dangerous chemicals and 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 up on local regulations and guidelines before battery disposal.
2. Completely discharge the battery before disposing of it. Once it's discharged, the battery won't be able to 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 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

Once you use this device, you are deemed to have understood, recognized, and accepted all terms and contents of this document. Please read the user manual thoroughly before using this product, and keep this manual in a safe place for future reference. 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 his 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 to have a final explanation and to change these terms and conditions at any time without prior notice. If we make any revisions, the revised terms and conditions shall be posted on our website immediately; please visit our website to inform yourself of any changes.

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