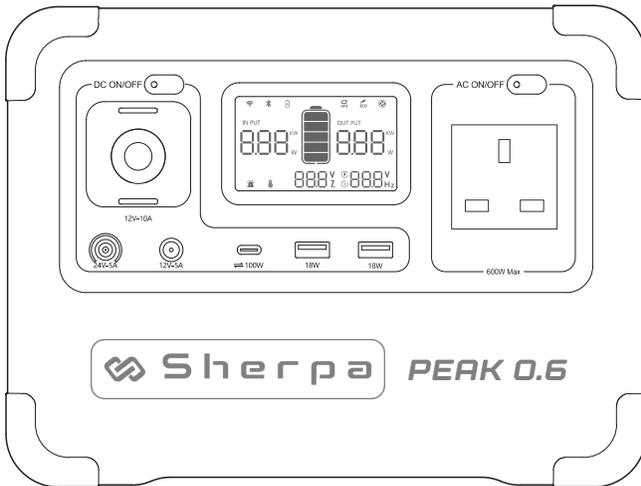


 Sherpa

# PEAK 0.6



Please read the user manual thoroughly before using

# CONTENTS

<b>Box Contents</b>	.....	<b>01</b>
<b>Specifications</b>	.....	<b>01-02</b>
<b>Function Overview</b>	.....	<b>02</b>
<b>How to use the PEAK 0.6</b>	.....	<b>03-</b>
	<b>05</b>	
<b>Display Overview</b>	.....	
	<b>03</b>	
<b>UPS Mode</b>	.....	<b>04</b>
<b>Eco Mode</b>	.....	<b>04</b>
<b>Charging</b>	.....	<b>04-05</b>
<b>FAQ</b>	.....	<b>06</b>
<b>Disclaimer</b>	.....	<b>06</b>
<b>Safety Advice</b>	.....	<b>07</b>
<b>Disposal</b>	.....	
	<b>07</b>	
<b>Warranty Exclusions</b>	.....	
	<b>08</b>	
<b>Support</b>	.....	<b>08</b>

## BOX CONTENTS

		
PEAK 0.6 *1	AC Charging Cable *1	Car Charging Cable *1
		
Solar Cable with 5521 Connector *1	Spare corner protector *8	

## GENERAL SPECIFICATIONS

			
Capacity	Battery Type	Charging Time	
576Wh (47Ah)	LiFePO4 Battery Retain 80%+ Original Capacity At 3500 Cycles	Charge to 80% in 60 minutes and 100% in 90 minutes	
			
Protections	Temperature	Dimension	Net Weight
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)	L254*W172*H189 mm	Around 6.75 Kg

## OUTPUT SPECIFICATIONS

			
AC Output *1	USB-A *2	USB-C *1	
Pure sine wave 220V~240V Max 600W	(5V,9V,12V, Max 18W)*2	(5V,9V,12V,20V, Max 100W)*1	
			
Aux Car Port *1	DC 5525 Output *1	DC 5525 Output *1	Wireless Charger *1
DC 12V-10A	DC 12V-5A	DC 24V-5A	Max 15W

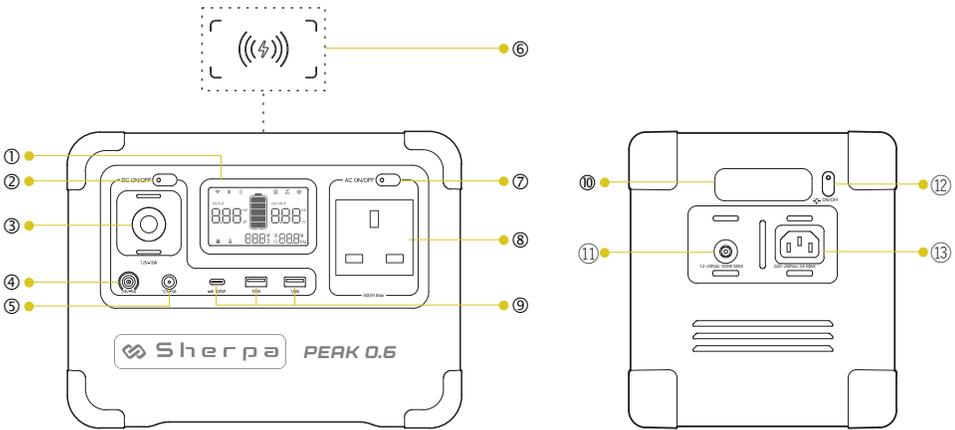
# INPUT SPECS

 USB-C*1 DC 20V-5A (5V,9V,12V,20V,Max 100W)	 5521*1 DC Charging (12V-28V ) Max 100W	 AC INLET *1 AC 220V-240V 500W
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**Note:** All charge methods work simultaneously but the total charge will be limited to 500W.

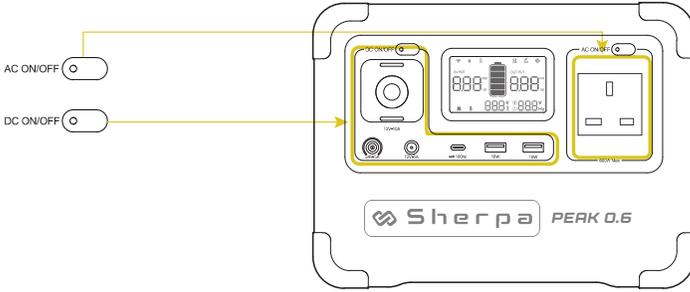
# FUNCTION OVERVIEW

**Important:** On first use of your Sherpa product, please run one full cycle of the battery to condition the cells and calibrate the Battery Management System. This will also improve accuracy on the display screen.



- ① LCD Display
- ⑧ AC 220V-240V Output
- ② DC 12V/USB/Wireless ON/OFF
- ⑨ USB-A / USB-C Ports
- ③ DC12V Aux Car Output
- ⑩ LED Light
- ④ 5525 DC 24V Output
- ⑪ 5521 Car / Solar Input
- ⑤ 5525 DC 12V Output
- ⑫ Switch Of Light
- ⑥ Wireless Charger
- ⑬ AC 220V-240V Input
- ⑦ AC 220V-240V Switch

# HOW TO USE THE PEAK 0.6



Long press to turn on/off the LED light, short press to switch the brightness of the LED light.



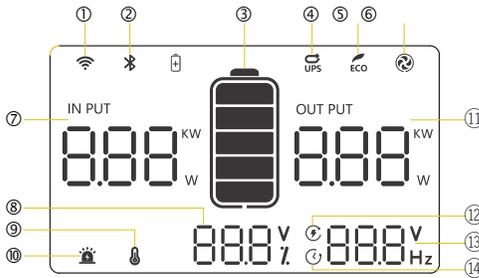
Press and hold to turn on/off AC, short press to view voltage and frequency after turning on.



Long press ON/OFF button to control DC/USB/Wireless output or short press to view battery voltage.

Note: Turn AC OFF when not in use to save the battery energy.

## DISPLAY OVERVIEW



- |                         |                              |   |
|-------------------------|------------------------------|---|
| ①  Wireless Connection  | ⑥  Fan Active                | ⑪  AC/DC Output Wattage                 |
| ②  Bluetooth Connection | ⑦  AC/DC Input Wattage       | ⑫  Remaining Charging Time              |
| ③  Battery Level        | ⑧  State of Charge (voltage) | ⑬  Remaining Hours Of Charge /Discharge |
| ④  UPS Function         | ⑨  Temperature Alarm         | ⑭  Remaining Use Time                   |
| ⑤  ECO Mode             | ⑩  Equipment Alarm           |   |

## UPS MODE

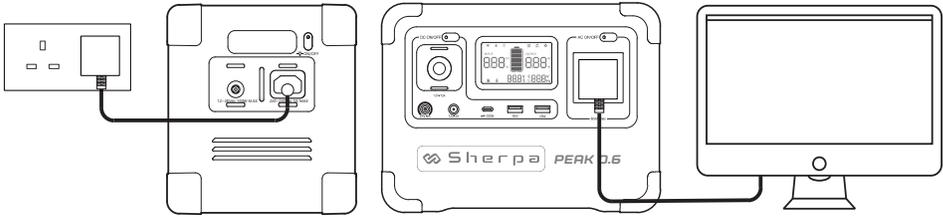
PEAK 0.6 has an Uninterruptible Power Supply function. While connected to AC mains input, the AC output prioritises using the source power. If the external AC mains power is disabled suddenly, the AC output switches to supply power from the battery pack of the PEAK 0.6 within 8-20ms.

Note: Instant switching of 0ms is not possible. Do not connect the product to devices that require 0ms switchover, such as servers and workstations as data could be lost. Please test that the switchover time is adequate in advance.

Be mindful of connecting multiple devices at the same time to avoid overload.

**Sherpa is not responsible for any equipment damage or data loss resulting from failure to follow instructions.**

**The max output power is 600W during UPS function.**



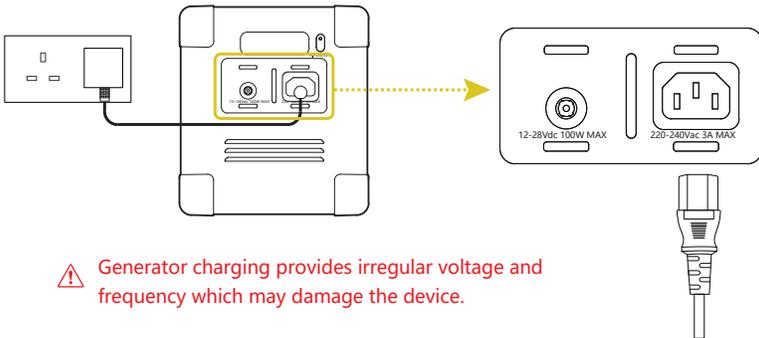
## ECO MODE

Long Press DC button + LED light button for 2 seconds to toggle ECO mode.

In ECO mode, the AC charging power is reduced to 50%. If there is no activity for 1 minute, the screen will automatically turn off (unit functions stay ON). The PEAK 0.6 will automatically shut down after 3 hours without any load.

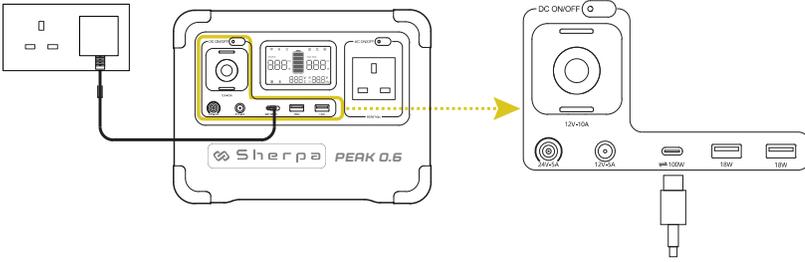


## CHARGING THE PEAK 0.6 BY MAINS POWER

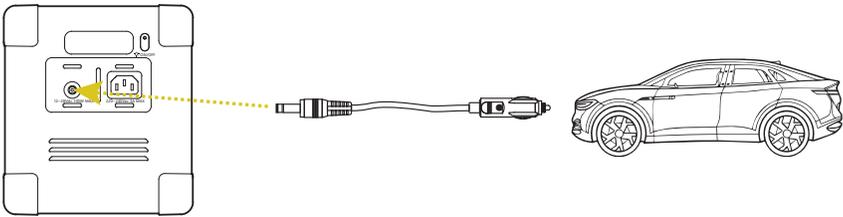


**⚠ Generator charging provides irregular voltage and frequency which may damage the device.**

## CHARGING THE PEAK 0.6 BY USB-C

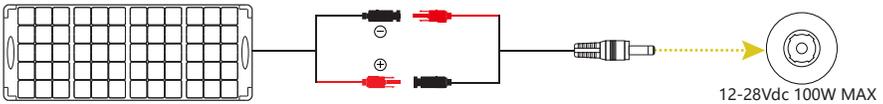


## CHARGING THE PEAK 0.6 BY VEHICLE



## CHARGING THE PEAK 0.6 BY SOLAR

Charge the PEAK 0.6 with a single panel



The Voc of a single solar panel should be less than 28V, and the Vmp should be greater than 12V.

## FAQS

1. What kind of battery is used in PEAK 0.6? How long it can last?  
PEAK 0.6 utilises high quality UL certified automotive LiFePO4 battery cells, it can retain 80% of its original capacity at 3500 complete charge cycles.
2. What devices can PEAK 0.6 power?  
Please note that the AC output port can only power devices that operate at less than 600W.  
The DC output port is limited to 12V-30A charging input or load.
3. Can the PEAK 0.6 be used as UPS?  
PEAK 0.6 supports UPS function with an automatic switchover time of 8-20ms.
4. How to calculate the PEAK 0.6 run time?  
 $\text{Run Time} = \text{Total Capacity (576Wh)} \times 0.85 \text{ (Depth of Discharge)} / \text{Load (Watts)}$
5. Does PEAK 0.6 have a built-in MPPT charge controller?  
Yes, there is one independent built-in MPPT controller; "5521" port supports 12-28V(Max 100W) PV input.
6. Can the PEAK 0.6 be charged while discharging?  
Yes, It can be charged and discharged at the same time. Under the non-UPS state, if uninterrupted use is required, the average charging power must be greater than the average load power, otherwise the battery will eventually run out and shut down.
7. How to store the PEAK 0.6?  
Please turn off the unit and then 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 sustain the battery life.
8. Is there any other safety advice?  
This product is IP rated 20 and is therefore NOT waterproof.  
Pay attention to ventilation and heat dissipation when using;  
ensure adequate space is made for the vent fans to dissipate internal heat when in use.  
Do not use the product in environments where volatile gas may be present.

## DISCLAIMER

Please read the user manual thoroughly before using this product, and keep this manual in a safe place for Future reference. Failure to follow the instructions for proper set up, use, and care for the device can increase the risk of serious personal injury, death, or property damage. Once you use this device, you are deemed to have understood, recognised and accepted all terms and contents of this document. The user shall be responsible for their own actions and all consequences arising from failure to use the device in accordance with the "User Manual" , or as authorised in the current product literature.

In compliance with laws and regulations, Sherpa Tek Ltd reserves all rights for final explanation, and to change these terms and conditions at any time without prior notice. In the event that any revisions are made, the revised terms and conditions shall be posted on our website immediately, please visit our website to inform yourself of any changes.

## SAFETY ADVICE

1. Do not place the device near heat source, such as a fire or a heater.
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 or placing metallic objects across the terminals.
6. Do not use accessories or parts other than those provided by original factory.
7. When using this product, please follow the ambient temperature guidelines in the user manual. If the battery temperature becomes excessively high, it can degrade the capacity as would exposure to an excessively low temperature environment.
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. Avoid impacts and violent vibration to the unit. 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. In the event of immersing the device into the water accidentally, please place the unit in a safe open area and keep away from the unit until it is completely dry. The 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 recommended order: water or mist, sand, fire blanket, dry chemical, carbon dioxide fire extinguisher.
12. Avoid exposure to dust and debris. To clean the surface of the device, wipe with a dry cloth.
13. Please store this device in a place out of reach of children and pets.
14. Please take care when lifting the product, consulting safe lifting guidance
15. It is good practice to monitor your product for any damage to the exterior and the battery charge level to maintain a longer lifespan.

## DISPOSAL

1. When conditions permit, please be sure to completely discharge the battery of this product and take it to a designated battery recycling facility. This product contains batteries which contain dangerous chemicals and are strictly prohibited from being disposed of in general waste. 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 a battery recycling bin. Contact Sherpa Tek or a professional battery recycling company for further advice.
3. The battery can enter a deep discharge state if left to drain over a long period and will no longer be able to accept charge, please dispose of it according to current waste regulations.

## WARRANTY EXCLUSIONS

1. Misused, abused, damaged by accident or damaged due to force majeure (e.g. lightning strikes, hurricane, floods etc.).
2. Unauthorised modification, repair, dis-assembly or operation not in accordance with the official instructions or manuals.
3. Any defects or damages caused by reliability or compatibility issues when using unauthorised third-part parts.
4. Purchase from unauthorised resellers.
5. Use for special applications other than normal consumer use.
6. Lost, stolen or fully refunded product.
7. Any defect or damage caused by exposure to excessive heat, cold, liquids or other external causes.
8. Invalid proof of purchase.
9. Warranty period expired.
10. The battery model on the warranty certificate does not match the actual item.
11. Product wear and tear from general use.
12. Inadequate storage and/or incorrect maintenance of the battery.

**CUSTOMER SUPPORT** : [support@sherpapower.co.uk](mailto:support@sherpapower.co.uk)

[www.sherpapower.co.uk](http://www.sherpapower.co.uk)

Sherpa Tek Ltd.





*Own Your Energy*