

USER MANUAL BlackBee 2000



WARNING & ATTENTION

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power cable*1

X =

Warranty card*1

User manual*1

02 -

04

((1))

TO EMPTY

81%-100%

06 -

80

10

12 -

14

PACKAGE LIST

Alphae:

Power Station*1

Lithium Ion

2,203.2Wh

PRODUCT TOUR & FUNCTIONS

≥1600 cycles

Up to 6 months after full charge;

AC: 1600W Continuous, 3000W Peak

re-charge every 3 months Total Output: 2040W

DC+USB: 440W in total

III SPECIFICATION

BATTERY

Lifecycles

Shelf-life

Cell Chemistry

Energy Storage Capacity

Wattage Compatibility

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Do not put the unit in a high temperature environment, or explode in the sun. ◆ Do not place the unit in water or rain outdoors. Do not place the unit on its side or upside down when in use or

storage. Do not use the unit in an environment outside the scope of the use

WARNING

- environment. Do not use the unit if the power cord is damaged or broken.
- Do not let children use the unit. Keep the unit away from children Do not recharge the unit via power supply systems that operate outside of 200-240V.
- **ATTENTION** ◆ Keep the power vents open. Do not cover this product with objects, such as towels, clothing
- during use. Turn off any output ports (AC/DC/USB) that are not being used in order to conserve power.

Use the original or certified charger and cables. Non-technical professionals should not disassemble the unit.

- Not permitted on aircraft. To preserve the battery lifetime, please use and recharge at least every 3 months.

- 01

INPUT PORTS

Input undervoltage protection, Output over voltage protection, **Battery Management System** Overload protection, (BMS) Short circuit protection,

Overtemperature protection

80

AC Input Port

8888

TIME HOURS

188

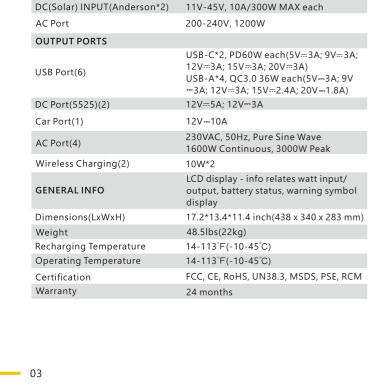
PV Input Port(Anderson)

AC Input

Solar Input

AC Output

DC Output **USB** Output



Wireless Charging

Cable Storage Box

Info Display LCD

Power Input

05

Power Output

RECHARGE(INPUT)

when it reaches 100% capacity.

[AC Socket]

07

Energy Remaining(Percentage)

Recharging Time Remaining

Discharging Time Remaining

TO FULL TO TO HOURS

Charging Method 1: From Wall Outlet (by AC charging

Connect BlackBee 2000 from the AC input port(8) via charging cable to the

AC wall outlet @1200W Max., the charging process will automatically stop

[Press Q1 & Q2 at the same time to open the cover]

6-

USB-A

Please check the power consumption of your device and make sure it

£8888.

Defaults The device will automatically

The device will automatically

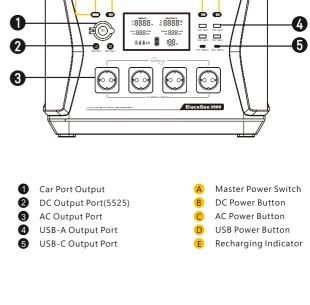
shut down after 4 hours

shut down after 12 hours

is under 1600W.

3

Alphaess



WARNING SYMBOL DISPLAY

to restart your BlackBee 2000. If the symbol still exists, please contact customer support for further solutions. This symbol indicates your BlackBee 2000 is under overload protection. Disconnect the output load to release the protection and the symbol will disappear.

This symbol on display means the wireless charging is powered on. And if it is flashing, it means the wireless

will be paused. Please press the Master Power Switch(A)

IF YOU OPERATE THE POWER STATION IN AN IMPROPER WAY, THERE WILL BE APPEARING SYMBOLS ON LCD SCREEN. When the input voltage of recharging is too high or too low, this symbol will be displayed and the input charging

RECHARGE & DISCHARGE

charging is malfunctional. Please check the wireless charging panel or restart the wireless charging. This symbol indicates that the product is in a low power state(less than 20%). Please kindly charge it to 100% and then use it. This symbol indicates that the device is under high-temperature(Red icon) or low-temperature

(Blue icon) protection and the protection will be released

if the icon does not display

BATTFRY

SYMBOL

Max Current: 10A Voltage Range: 11-45V



Charging Method 2: Solar Panels (via Anderson cable)

Charging Method 3: Users can charge BlackBee 2000

3. DC OUTPUT (INCLUDE WIRELESS CHARGING)

With the Master Power Switch(A) turned on, short press the DC Power

* For power saving, please turn off the Master Power Switch(A) when

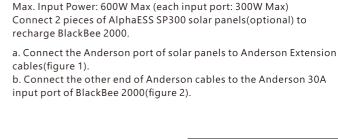
- 8888.

TEME | | | | HOURS

188%

[DC Wireless Charging]

via Method 1 and Method 2 simultaneously.





Button to turn on/off DC output.

the BlackBee 2000 is not in use.

1. PROBLEM WITH INPUT(AC)

* Check if the charging indicator is ON. * Check if the LCD shows INPUT WATTS. 2. PROBLEM WITH SOLAR CHARGING

and correctly.

TROUBLESHOOTING

* Make sure the ORIGINAL AC power cable is connected firmly

* Make sure the cable is connected firmly and correctly. * Remove the dust or dirt on the solar panel with a soft cloth.

Test if the power station can be recharged via the AC Power normally, if yes, please check if something is wrong with the solar

* Press and hold the Master Power Switch(A) for 3 seconds to turn off,

3. PROBLEM WITH OUTPUT(AC/DC/USB/LCD SCREEN)

* Recharge the power station to 100% and test it again.

* Make sure there is NO shadow cast on the panel. * Test it under midday STRONG sunlight. * Try to unplug and plug several times.

[DC Power Button]

(DE

With the Master Power Switch(A) turned on, short press the USB Power Button to turn on/off USB output. [USB Power Button]

...8888.

TIME BBB HOURS

188*

(88)

[Normal Mode]-

Mode

ECO

Mode

Normal

Output

DC+USB Output

AC Output

1. USB OUTPUT

2. AC OUTPUT

Button to turn on/off AC output. -{AC Power Button} 6 6 "8888.



	Mode	BlackBee 2000 will not shut off automatically	YES
-	BATTER	Y MANAGEMENT SYSTEM(BMS)	
	ensure sa	ectronic system that manages the charging of bat fety, including input under voltage protection, or	utput over

≤6W

≤2W

Q2: Can the BlackBee 2000 be recharged while using? A: Yes, but please note BlackBee 2000 only supports pass-through charging while it is charged by the solar panel. Q3: Can the BlackBee 2000 be used as UPS? A: No, the BlackBee 2000 can't be used as UPS. Q4: How to know the working time for my device? A: Working time=Capacity*DOD*η /device load W η indicates local inverter efficiency. DOD=95%, η =95%.

Q7: Why it takes so long to recharge the power station from 90% to 100%? A: When the power station is charged at low power, the charging power is the largest. With the increase of the power, the internal

Q6: How do I know the BlackBee 2000 is recharged?

charging speed will slow down. 13

VIII WARRANTY WARRANTY PERIOD

VII FAQ

replaceable.

1. Go to www.alphaess-pps.com

2. Click the "Support", and then choose "FAQs"

Note:

A: Please note that the total output of BlackBee 2000 is 2040W $\,$ (AC 1600W and DC+USB 440W), which means it can power any AC $\,$ devices under 1600W.

Q1: What devices can BlackBee 2000 power?

and turn it on after about 30 seconds.

Q8: Can I find any video about recharging the BlackBee 2000? A: Please kindly check the video in the following instructions: 1. Go to www.alphaess-pps.com 2. Click the "Support", and then choose "FAQs" 3. Check "Product Video"

decreases. Q10: Can the battery inside be replaceable? A: No, the batteries inside of AlphaESS power station are not

More questions, please kindly find the answer in the following way:

A: Yes, the voltage of the output ports in AlphaESS power stations

is regulated. The voltage won't change when the battery power

Q9: Is the voltage of the output ports regulated?

Ampere(A) Watt(W) = Voltage*Current(P=UI) Ampere hour(Ah) / Milliampere hour(mAh) 1Ah = 1000mAh

Volt(V)

PHYSICS TECHNICAL

TERM REFERENCE

WARRANTT				
Email address				
e & photos of the device itself with				
·				

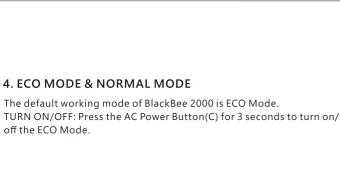
≈2.2hrs Full Charge 1200W Max Input Power

[AC Charging Cable]

DISCHARGE(OUTPUT)

Press Master Power Switch(A) for 3 seconds to turn on/off the product.

With the Master Power Switch(A) turned on, short press the AC Power



BATTERY MANAGEMENT SYSTEM(BMS)
It is an electronic system that manages the charging of battery to ensure safety, including input under voltage protection, output over voltage protection, overload protection, short circuit protection, over current protection, over temperature protection.
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E.g.: Calculate the operating times for a 500W device: 2,203.2Wh*95%*95%/500W=4 Hours Q5: Does the BlackBee 2000 include a built-in MPPT controller? A: Yes, BlackBee 2000 has 2 built-in MPPT charge controllers.

A: The input indicator will be flashing when the BlackBee 2000 is being

recharged or you can check if the LCD screen shows the input watts.

from high current impact to damage the internal structure, so the

battery pack voltage of the energy storage gradually increases to the charging limit voltage and then enters the trickle charging stage with a lower charging rate, which can protect the battery

The warranty period is 24 months. In each case, the warranty period is measured starting on the date of purchase by the original consumer purchaser. The sales receipt from the first consumer purchase, or other reasonable documentary proof, is required in order to establish the start date of the warranty period. **AFTER-SALES SERVICE** AlphaESS will repair or replace(at AlphaESS'option) any AlphaESS

product that fails to operate during the applicable warranty period

replace the product, or(2) exchange the product with a product that

due to defect in workmanship or material. If a valid claim is made during the applicable period, AlphaESS, at its option, will either(1)

is of equal value. **NOT APPLICABLE CONDITIONS**

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AlphaESS's warranty does not apply to: 1). Any product that has been misused, abused, modified, accidentally damaged or used for anything other than normal consumer use as authorized in AlphaESS's current product literature; 2). Disassembly and repair by anyone other than professional service personnel of AlphaESS; 3). Damage caused by force majeure(such as lightning, fire,

earthquake, flood and other natural disasters).

Voltage(U) Current(I) Power(P)

YOUR ISSUE.

CONTACT INFO Buyer name **ORDER DETAILS** Order ID

Serial number

Upload proof of purchase AlphaESS logo showing.

Issue details

Rated energy(Wh) = Capacity(Ah)*Voltage(V) Capacity DC output: size/direction does not change with time AC output: current whose size and direction change periodically WARRANTY CARD PLEASE SEND BACK INFORMATION REQUIRED BELOW, WHICH WILL BE HELPFUL FOR US TO HAVE A FAST SOLUTION FOR CUSTOMER SUPPORT: service.pps@alpha-ess.com MADDANITY