

NEBO[®]

PINNACLE™ 2400 POWERSTATION



OPERATING INSTRUCTIONS

PLEASE READ BEFORE OPERATING THIS EQUIPMENT

FOR ALL QUESTIONS ABOUT THE WARRANTY
OR EXCHANGE REQUESTS, CONTACT US.

1-800-255-6061

SAFETY INSTRUCTIONS

YOUR SAFETY IS IMPORTANT TO US.

Please read the instructions carefully and utilize the proper precautions before operating this equipment.



SAFETY PRECAUTIONS / MOVING AND STORAGE INSTRUCTIONS

- Read all instructions before using the product.
- When used correctly, lithium-ion rechargeable batteries provide a safe and dependable source of portable power. However, if they are misused or abused, this may result in leakage, burns, fire or explosion, causing personal injury or damage to other devices.
- Misusing or incorrectly connecting your NEBO Pinnacle 2400 may cause electric shock to users and damage equipment.
- Keep your NEBO Pinnacle 2400 dry and away from moisture and corrosive materials. The NEBO Pinnacle 2400 should not be used near water or wet areas such as bathtubs, showers, bathrooms, sinks, swimming pools or basements.
- Do not expose your NEBO Pinnacle 2400 to moisture, water, rain, or snow.
- Keep your NEBO Pinnacle 2400 away from heat sources, including open flames, radiators, stoves, ovens, and any other devices that produce heat.
- The lithium-ion rechargeable battery used in this charging device may present a risk of fire or chemical burn if mistreated. Do not expose to fire or excessive temperature. Do not expose to heat above 212°F (100°C) or incinerate.
- In the unlikely event of leakage or explosion use sand or a chemical fire extinguisher.
- Your NEBO Pinnacle 2400 may become warm under extended high power operation. Do not cover, wrap, or otherwise restrict the NEBO Pinnacle 2400 during operation.
- Do not disassemble your NEBO Pinnacle 2400. There are no user-serviceable parts inside. Incorrect reassembly may result in shock or fire hazard.
- Do not drop or subject to strong impacts. Do not operate your NEBO Pinnacle 2400 if it has received a sharp blow, or has otherwise been damaged in any way.
- Do not puncture, crush or subject to mechanical shock.
- Only charge your NEBO Pinnacle 2400 by the specified method with the specified charging cords provided with the unit.
- The NEBO Pinnacle 2400, along with its accessories, are not toys and should be kept away from children.
- Do not insert any foreign object into the ports or openings of your NEBO Pinnacle 2400.
- To clean your NEBO Pinnacle 2400, wipe the case with a soft cloth. Do not use harsh chemicals, soaps, or detergents.
- Make sure the NEBO Pinnacle 2400's charging ports do not become contaminated with lint or other debris. Use a canned-air type of product periodically to ensure that the port openings are clear.
- Batteries should be recycled or disposed of as per state and local guidelines.

SAFETY INSTRUCTIONS

Scan the QR code below to register your product.
For product information and videos, visit [NEBOpower.com](https://www.nebopower.com).



PRODUCT REGISTRATION

IMPORTANT: Fully charge your NEBO Pinnacle™ 2400 before using it for the first time.

BATTERY MAINTENANCE: When not used, the Pinnacle 2400 power station should be stored in a cool, dry place. However, we recommend every 3 months to recharge for 2 hours. During this maintenance, the fans may turn on and the unit may get warm. This behavior is normal. If this occurs, leave the unit plugged in until fan activity stops. This charge cycle will help prolong battery life and maintain peak performance.

ACTIVATE YOUR WARRANTY TODAY: Your NEBO Pinnacle 2400 has a two-year warranty from the date of purchase. By registering your warranty, you will help protect your investment and save a record of your purchase with our customer service team.

BATTERY MAINTENANCE

When not used, the NEBO 2400 power station should be stored in a cool, dry place. However, we recommend every 3 months to recharge for 2 hours. During this maintenance, the fans may turn on and the unit may get warm. This behavior is normal. If this occurs, leave the unit plugged in until fan activity stops. This charge cycle will help prolong battery life and maintain peak performance.

PINNACLE SERIES

Whether you're an explorer seeking off-grid power, a modern nomad taking your RV or van to new horizons, or a homeowner seeking reassurance during unexpected outages, the NEBO PINNACLE Series is your answer. A fusion of power, portability, durability, and versatility, this range of products promise to empower your experiences and keep you connected.

PORTABLE. POWERFUL. VERSATILE.

The PINNACLE™ 2400 Power Station provides powerful performance for multiple users across multiple days, portability to keep up with your travels, a robust design, and versatile charging capability. Easily charge the power station at home, in the car or via the sun (solar panel not included) as you prepare to head into the outdoors or off-grid. Once it's charged up, you'll have the confidence and adaptability to power just about any device thanks to the 12-way output via the dual USB-A ports, dual USB-C Power Delivery (PD) ports, wireless charging pad, four AC ports and three DC charging ports. The powerful 2400W AC inverter means that you'll always have an outlet available, so you have the freedom to work remotely or stay connected and with NEBO OVERDRIVE™, you'll have access to an expanded watt capability to power essential devices during a power outage or higher watt hungry items up to 3000W. The PINNACLE 2400 was designed with heavy-duty handles to make portability easier and port covers to protect it from dust or debris and help prolong the lifespan of the unit. The LCD color display is easy to read, offering real-time input and output data while the integrated floodlight makes it a great emergency tool.

DEVICE COMPATIBILITY

The power requirements, run times and recharge figures below are estimates and are provided for reference purposes only. Actual results may vary by device.



**SMARTPHONE (10WH)
UP TO 147 RECHARGES⁺**



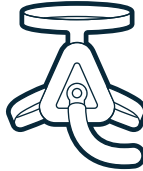
**LAPTOP (41WH)
UP TO 36 RECHARGES⁺**



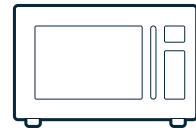
**TV (60W)
UP TO 24 HOURS⁺
OF OPERATION**



**COFFEE MAKER (650W)
UP TO 2.8 HOURS⁺
OF OPERATION**



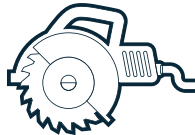
**CPAP (50W)
(NO HEATED HUMIDIFIER)
UP TO 24 HOURS⁺ OF
OPERATION**



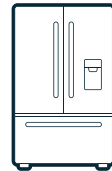
**MICROWAVE (1000W)
UP TO 1.5 HOURS⁺ OF
OPERATION**



**ROUTER (6W)
UP TO 247 HOURS⁺
OF OPERATION**



**CIRCULAR SAW (180W)
UP TO 8.25 HOURS⁺
OF OPERATION**

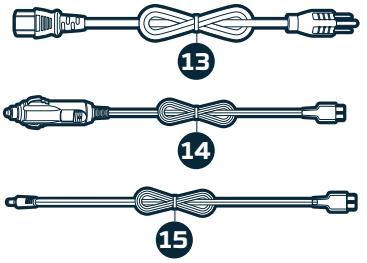
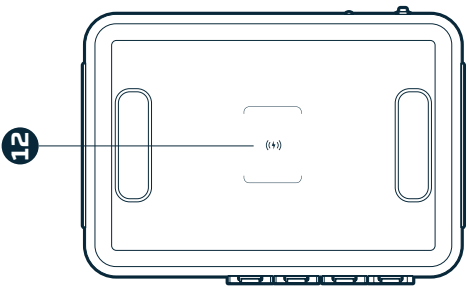
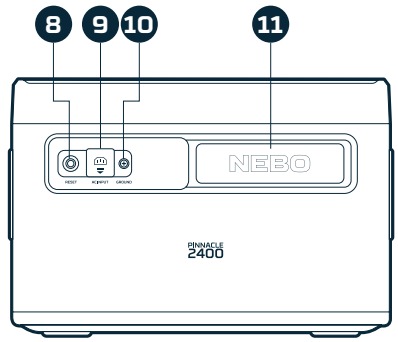
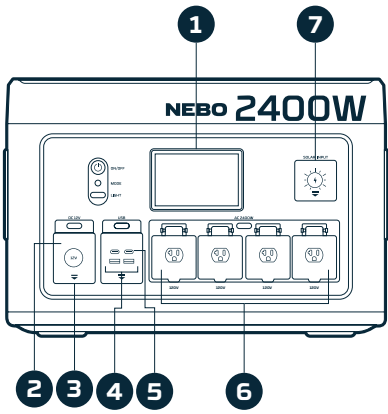


**REFRIGERATOR
(1000WH/PER DAY)
UP TO 35 HOURS⁺
OF OPERATION**

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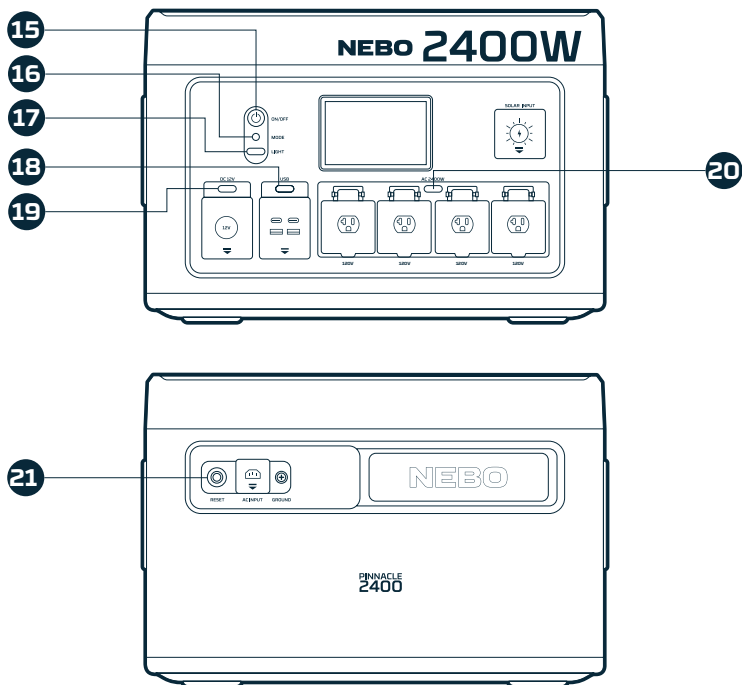
PRODUCT FUNCTION DESCRIPTION



- 1 | LCD Display
- 2 | 12V DC Output Ports
- 3 | 12V DC Output Socket
- 4 | USB-A Output Ports
- 5 | USB-C Output Ports
- 6 | 120V AC Outputs (x4)
- 7 | Solar/Anderson Input
- 8 | Overload Protection Reset Button

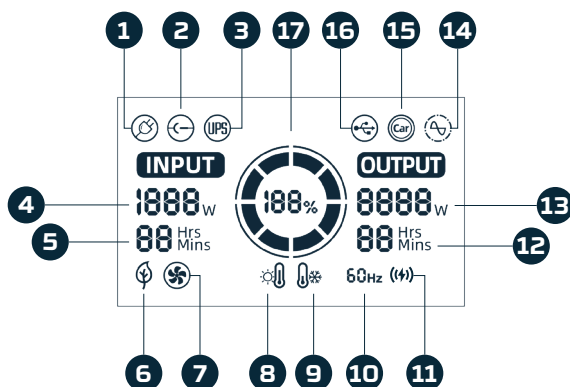
- 9 | AC Input
- 10 | Ground Port
- 11 | LED Light
- 12 | Wireless Output
- 13 | AC Power Cord
- 14 | 12V DC to Anderson Cable
- 15 | 5525 to Anderson Cable

BUTTON DESCRIPTIONS




- 15 | **Power ON/OFF Button:** Press and hold to turn the unit on. Press and hold to turn the unit off.
- 16 | **Mode Button:** Turn on the unit first. Press the button to switch between AC fast charging and slow charging (25%). Use slow charging if your AC outlet is being shared by other equipment. The default mode is fast charging.
- 17 | **LED Light Button ON/OFF Button:** Turn on the unit first. Press the button to turn on the LED light. Press again to cycle the LED light modes in this order: Low, High, Strobe, S.O.S., Off.
- 18 | **USB ON/OFF Button:** Turn on the unit first. Press the button to turn the USB-A and USB-C output on. Press again to turn off.
- 19 | **DC ON/OFF Button:** Turn on the unit first. Press the button to turn the DC 12V output on. Press again to turn off.
- 20 | **AC ON/OFF Button:** Turn on the unit first. Press the button to turn the AC output on. Press again to turn off.

LCD DISPLAY





- 1 AC Input:** During AC charging, this icon displays on the LCD.
- 2 DC Input:** When solar panel or DC source is connected to the DC/Solar input, the icon will turn on.
- 3 Uninterruptible Power Supply (UPS):** An uninterruptible power supply (UPS) is backup feature that provides near instantaneous power in the event of an unexpected power failure or outage which protect sensitive equipment from damage.

Devices with sensitive electronics like CPAP machines, some medical equipment, or computers can benefit from the UPS feature. Instead of powering down during an outage, they maintain performance despite the power outage.
- 4 Input Power:** When the power station 2400 is being charged by AC and/or DC, the total charging power will be displayed under "INPUT". DC/Solar input takes priority over AC input, when both are being used.
- 5 Input Time:** Estimated time remaining to fully charge the internal battery.
- 6 AC Charge Mode:** When displayed, AC slow charging is enabled (300W). Fast charging is the default mode (1200W).
- 7 Cooling Fan Status:** Cooling fan is on when the fan icon is displayed.
- 8 High Temperature Warning:** When this icon illuminates, the internal temperature has reached its high temperature limit, the unit will shut off automatically.

- 9 **Low Temperature Warning:** When this icon illuminates, the internal temperature has reached its low temperature limit, the power station will not be able to provide output or being charged.
- 10 **AC Output Frequency:** Indicates the AC output frequency.
- 11 **Wireless Icon:** Wireless output is on when this icon is displayed.
- 12 **Discharge Time:** Estimated time to fully discharge the internal battery.
- 13 **Output Power:** Shows the total output power.
 **Note:** This value displays the real-time power consumption, it changes accordingly when change in power consumption of the devices connected.
- 14 **AC Output:** This icon indicates the AC output is enabled.
- 15 **DC Output:** This icon indicates DC 12V and cigarette lighter socket is enabled.
- 16 **USB Output:** Indicates USB ports are enabled.
- 17 **Battery Level Indicator:** Shows the battery charged level.

LIST OF FAULT CODES

ERROR CODE	POTENTIAL CAUSE	SOLUTIONS
	High Temperature Warning	Please stop using the product and let it cool down to room temperature until the icon disappears.
	Low Temperature Warning	Please stop using the product until the icon disappears.
E01	Battery overvoltage	Please disconnect the charging cable and stop charging.
E02	Battery undervoltage	Please disconnect the output and charge the device.
E03	Inverter overheating	Please disconnect the output and wait 1-2 hours before operation.
E04	Abnormal input voltage	Please disconnect the charging cable.
E05	Abnormal grid frequency	Please disconnect the charging cable.
E06	Abnormal output voltage	Please contact customer service center.
E07	Short circuit is detected on one of the output port	Please disconnect the output and check the electrical equipment.
E08	Overload is detected	Please disconnect output.
E09	Inverter failure	Please contact customer service center.
E16	Charge overload	Please disconnect the output load.

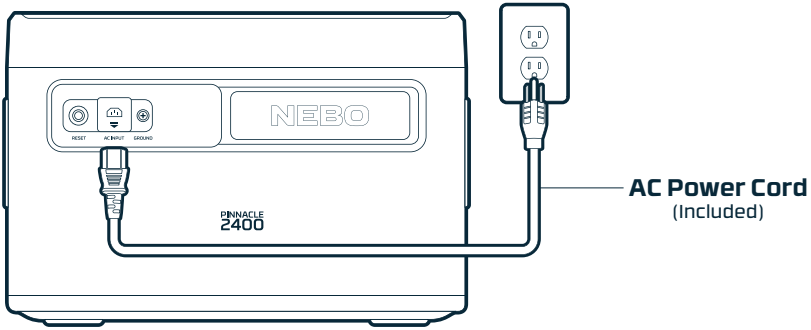


NOTE: When the DC load is abnormal, the system will automatically turn off the output and will not show the fault code. Please disconnect the output and check the electrical equipment then try again. When the USB load is abnormal, the corresponding output power will be zero and the system will not show the fault code. Please disconnect the outputs and check the electrical equipment, then try again.

CHARGING

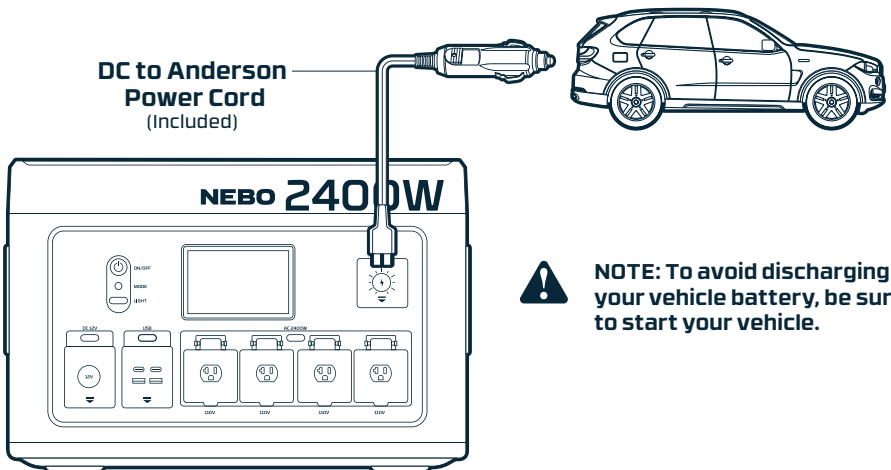
CHARGING PINNACLE 2400 AT HOME:

1. Connect the AC Power Cord (included) into the Pinnacle 2400 AC input port. Plug the other end into a AC wall outlet. Charging will begin automatically. Press the "MODE" button to switch between fast charge at 1200 watts or reduced power at 300 watts. Use reduced power if your AC outlet is being shared.
2. When fully charged, the input watts will display 0 and the Digital Display will indicate 100%. (Full charge could take up to 2 hours)
3. Disconnect cable and power off your Pinnacle 2400.



CHARGING PINNACLE 2400 IN YOUR VEHICLE:

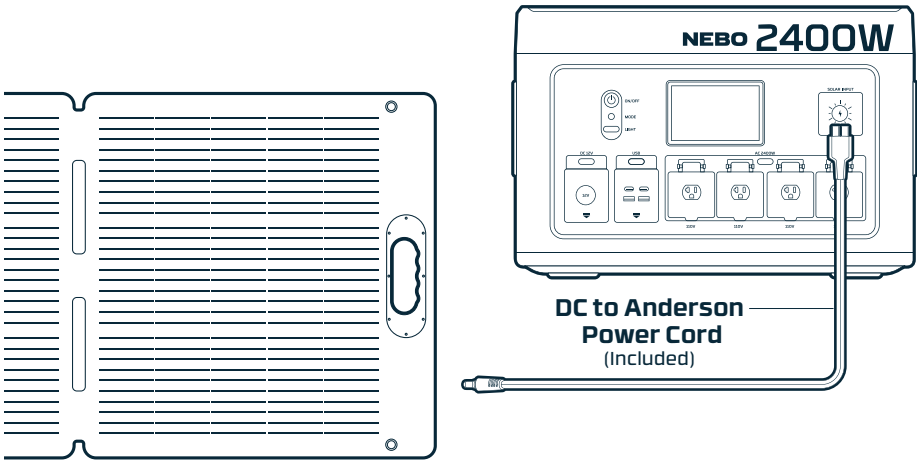
1. Plug the 12V DC Power Cord (included) into the Solar/Anderson Input port. Plug the other end into the vehicles DC output (cigarette lighter). Charging will begin automatically.
2. When fully charged, the input watts will display 0 and the Digital Display will indicate 100%. (Full charge could take up to 20 hours)
3. Disconnect cable and power off your Pinnacle 2400.



CHARGING

CHARGING WITH A SOLAR PANEL (SOLD SEPARATELY):

1. Connect the DC5525 to Anderson cable.
2. When fully charged, the input watts will display 0 and the Digital Display will indicate 100%. (Full charge could take up to 8 hours*)
3. Disconnect cable and power off your Pinnacle 2400.



NOTE: Charging speed will vary based on a number of factors including weather, obstructions and solar panel angle and positioning.

*Charge time achieved using four NEBO 100W Solar Panels.

POWERING YOUR ELECTRONIC DEVICES, EQUIPMENT AND APPLIANCES

USING THE 120V AC OUTPUT PORTS:

The NEBO Pinnacle 2400 can be used to power your 120V AC electronic devices/equipment/appliances rated for 2400 watts or less.

1. Connect the AC power plug from your electronic device, equipment or appliance into any of the four AC Output Ports.
2. Long press the POWER ON/OFF button to turn on the power station, then press the AC ON/OFF button to begin charging or powering.
3. When done, simply press the AC ON/OFF Button and remove the plug from the Pinnacle 2400.

NOTE: The NEBO Pinnacle 2400 will provide up to 4800 watts surge power for a short duration.

USING THE 12V DC POWER SOCKET AND 5521 OUTPUT PORTS:

The NEBO Pinnacle 2400 can be used to power your 12V DC electronic devices/equipment/appliances.

1. Connect your 12V compatible device/equipment/appliance into the Power Socket or 5521 Output Port(s).
2. Long press the POWER ON/OFF button to turn on the power station, then press the DC ON/OFF button to begin charging or powering.
3. When done, simply press the DC ON/OFF Button and remove the plug from the Pinnacle 2400.

USING THE USB PORTS:

The NEBO Pinnacle 2400 is compatible with any USB charging cable and is equipped with SMART CHARGE TECHNOLOGY, which allows the Pinnacle 2400 to communicate with your electronic device and provide the fastest and safest charge for that device.

1. Connect the USB cable that came with your device.
2. Plug the cable into one of the appropriate USB Output Ports (A or C).
3. Long press power ON/OFF button to turn on the power station first.
4. Press the USB ON/OFF Button to begin charging.
5. When charged, disconnect cable and power off your Pinnacle 2400.

NOTE: Quickest charge speeds can be achieved using the USB-C PD (Power Delivery) 100W Output Port.

WIRELESS CHARGING:

1. Place your wireless compatible device onto the wireless charging pad located on the top of the Pinnacle 2400.
2. Long press the POWER ON/OFF Button to begin charging.
3. When charged, power off your Pinnacle 2400.

NOTE: Make sure the device is aligned in the center of the wireless charging surface and that no gaps or obstructions are in between.

RE-CHARGING:

Use the original AC cable to charge, the full charge time is about 1.8-2.8 hours. When charging, the LCD screen will be lit, the LCD display will provide real-time display data of battery charging, and the device will display 100% when it is fully charged. It is recommended to fully charge the device every 3 months to maintain the life of the device.

OUTPUT PORTS:

While the power station is powered on, press the power button for the corresponding ports to enable the output(s), an icon will also be lit on the display.

OVERLOAD CONDITION:

When the output port(s) are short-circuited, the error code "E07" will display on the screen, and the output ports will shut off. Disconnect the devices and check for shorts.

When the output port(s) are overloaded, the error code "E08" will display on the screen and the output ports will shut off. Disconnect the loads.

POWER ON/OFF:

Long press the power ON/OFF button for 2-3 seconds to turn the power station on or off. The power station must be powered on before enabling output ports.

COOLING FAN:

The equipment is designed with internal fans to ensure that the product runs within the proper temperature range. When the device is working hard, it will automatically turn on the fan. During discharging and charging, the fan may run intermittently to keep the internal temperature within the operating range. When the AC circuit is activated, the fan is likely to start to ensure normal operation.

POWER SAVING SLEEP MODE:

When the power station is not plugged in to the wall outlet, and no output ports are enabled, it will enter sleep mode in 5-8 minutes.

When the unit is fully charged, the LCD will display the battery level at 100% and input power is 0W. The LCD will turn off automatically.

If the output ports are ON and the power is lower than certain level, the device will turn OFF all outputs then enter sleep mode in 8 hours.
(USB<5W, DC<5W, AC<25W)

EQUIPMENT CLEANING:

Please make sure that the device is disconnected from all input power and output devices. Wipe with a clean, dry, non-soft cotton cloth. Remove all any foreign objects, dirt or other obstructions on the vents on both sides. While cleaning foreign objects in the side vents, do not allow debris, dirt or other blockage to enters the equipment.

Do not use corrosive cleaners or solvents.

Do not use compressed air to clean the side cooling vents, as it will cause foreign particles to enter the interior and cause a short circuit.



Note: To avoid the risk of electric shock, do not use metal objects to clean the ports.

STORAGE:









Excessive temperature will lead to reduced service life, overheating and fire. Extremely cold conditions below the specified storage range can also impair the performance and service life of the equipment. Please keep away from corrosive chemicals and gases.

When removing from storage, make sure the side vents are clear of dust or debris before powering on.

DYNAMIC VOLTAGE ADJUSTMENT:

Dynamic Voltage Adjustment (DVA) technology allows your power station to perform beyond its standard 2400-watt level rating so it can run power tools and appliances with heating elements up to 3000-watts.

TRANSPORT INSTRUCTIONS FOR DANGEROUS GOODS:

 Not permitted on aircrafts	 Avoid dropping
 For battery preservation, please use and recharge at least once every 3 months	 Do not disassemble
 Use original or certified charger or cable	 It's not waterproof, do not expose to liquids
 Avoid extreme temperature	 Dispose of batteries and electronic goods in accordance with local regulations



The NEBO Power Station 2400 meets all legal requirements for the transportation of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh. According to international standards, if the power station is transported by air, it must be transported in accordance with IATA standard packaging. The instructions and labeling requirements of the International Air Transport Association and related declarations must be completed.

TROUBLESHOOTING:

Not able to turn on output ports:

1. Check whether the connecting cable has been inserted in the right port.
2. Check whether the total output power exceeds the rated output power (2400).
3. Check whether the outside temperature exceeds the discharging threshold (14° F - 104° F).

The power station is not charging:

1. Confirm that the AC socket on the wall and the AC charging cable are fully inserted into the AC input terminal.
2. The device cannot be charged immediately after it is discharged. Please put it aside for an hour and try again, because it may enter the over-temperature protection.

PRODUCT MAINTENANCE:

Check as needed. If the NEBO Power Station 2400 is not being used regularly, please charge and discharge it every 3 months under normal temperature to keep the service life. Regularly check all ports and wall chargers for any debris, dirt, damage, and corrosion.

Do not disassemble the device.

Do not cover the equipment with towels, clothes or other items. Regularly observe the side vents for dust and foreign matter, and clean them according to the cleaning procedures specified in the manual.



DISPOSAL/RECYCLING:

Do not put the device and its accessories in the trash can. Items must be properly handled in accordance with local laws and regulations. For additional information, please see www.epa.gov.

AFFIRM:

Copyrighted equipment. We all rights reserved. All trademarks cited here are the property of their respective owners. The information contained in this agreement is subject to change without notice. The we is not responsible for technical or editorial errors or omissions contained in this agreement.
First Edition: January 2023

FCC NOTE:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposu rerequirement.

The device can be used in portable exposure condition without restriction.

TECHNICAL SPECIFICATIONS

Battery Capacity.....	1843.2Wh, 36000mAh, 51.2V
AC Input	100-120V, 10A, 1200W Max
Solar/Anderson Input.....	12-75V, 25A, 800W Max
AC Output (x4).....	120V, 2400W, 4800W Surge
DC (5521) Outputs.....	12V/10A 120W Max
DC Output Socket.....	12V, 10A
USB-A1, USB-A2 Outputs.....	QC 18W, 18W Max (each port)
USB-C1, USB-C2 Outputs.....	PD 100W (each port)
Wireless Output	10W
LED Lighting Output.....	5W Max
Dimensions	16.9 x 11.8 x 11.3 inches
Weight	54.12 lbs (24.55 kg)
Charge Temperature.....	32°F - 104°F (0°C - 40°C)
Discharge Temperature.....	14°F - 104°F (-10°C - 40°C)

LIMITED WARRANTY

ACTIVATE YOUR WARRANTY TODAY: Your NEBO Pinnacle 2400 has a two-year warranty from the date of purchase. By registering your warranty, you will help protect your investment and save a record of your purchase with our customer service team.

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POWER POSSIBILITIES

www.NEBOPOWER.com