

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

25a

PREDATOR™

1200W PORTABLE POWER STATION

1200 RUNNING WATTS
2400 MAX STARTING WATTS
1060 WATT HOUR CAPACITY

**Fully charge
before first
use or voids
warranty.**



70081

Visit our website at: <https://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

Copyright© 2024 by Harbor Freight Tools®. All rights reserved.
No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠ WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

Table of Contents

Safety	3	Maintenance	11
Specifications	5	Troubleshooting	12
Setup	6	Parts List and Diagram	14
Operation	8	Warranties	16

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

Symbology

	Volts Alternating Current		Amperes
	Alternating Current Supply		Phase
	Direct Current Supply		Equipment Grounding Conductor

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

SAVE THESE INSTRUCTIONS—

This manual contains important instructions that shall be followed during installation and maintenance of the Power Station.

IMPROPER INSTALLATION OR USE CAN RESULT IN SERIOUS INJURY, PROPERTY DAMAGE, OR DEATH.

Setup Precautions

1. **DO NOT INSTALL THIS POWER STATION INTO A BUILDING'S ELECTRICAL SYSTEM.**
This Power Station is a portable unit. It is not designed to be safely used in a building's electrical system and has not been evaluated to meet building wiring codes. Improper application may create a fire or electric shock hazard.
 2. To allow proper cooling, use in well-ventilated area and do not cover ventilation openings or cooling fins.
 3. Do not store the Power Station in a location colder than 32° F. The Power Station will not operate when cold as a safety feature.
 4. **Do not use in a marine application.**
This Power Station is not intended to withstand the highly corrosive conditions in marine applications and would quickly be rendered inoperable or unsafe.
 5. Keep Power Station dry and clean. Do not expose to rain, snow, spray, bilge water or dust.
 6. Use cables that are thick enough. The more power (amps) or the longer the cables, the thicker they need to be to prevent overheating and fire.
 7. Do not use in a closed area near vented lead-acid batteries. Vented lead-acid batteries release explosive hydrogen gas that can be ignited by the Power Station.
 8. If using solar panel to charge unit, read solar panel manufacturer's warnings and instructions.
- WARNING! To prevent serious injury and property damage:** Do not exceed the maximum specified input voltage for Power Station when using solar panel to charge.
9. This product is not a toy.
Keep it out of reach of children.
 10. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
 11. Do not leave unit in extreme hot or cold conditions, such as inside a vehicle.
 12. Do not cover or stack items on Power Station.
 13. Only use recommended accessories and solar panels for charging this unit.
 14. Do not charge unit from a vehicle with electrical system greater than 12-volt.
 15. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Operating Precautions

1. Inspect supply connections before use to ensure they are tight and that insulation is not damaged.
2. Some rechargeable devices can damage the Power Station. Check the temperature of the device several times when it is charging. If the device becomes extremely hot or causes the Power Station to shut down; turn the power off, remove the device, and do not use with the Power Station again.
3. Check for breakage of parts and any other condition that may affect the Power Station's operation. If damaged, have it repaired before use.
4. Do not attempt to power a device, or combination of devices, that will require more than the rated output of this Power Station. This may damage the Power Station or the attached devices.
5. Be aware that appliances will normally draw more than their rated current.

6. Some fans with synchronous motors may slightly increase in speed when powered by the Power Station. This is not harmful to the fan or to the Power Station.
7. The Power Station will shut off automatically if unused. It will shut off after 1 hour for AC or DC output modes, or after 2 hours for USB output mode.

Note: The auto-shutdown feature will deactivate when AC charger is connected.

8. The Power Station will consume some power from the battery while on, even without loads attached. Turn Power Station off after use.

9. Extension Cord - Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized extension cord will cause a drop in line voltage resulting in loss of power and overheating.

The table below shows the correct cord size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge.

The smaller the gauge number, the heavier the cord.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS				
CURRENT (AMPS)	Load @ 120V (WATTS)	0 ~ 50 ft	50 ~ 75 ft	75 ~ 100 ft
2	240	18 AWG		
4	480	18 AWG		16 AWG
6	720	18 AWG	16 AWG	14 AWG
8	960	16 AWG		12 AWG
10	1200	16 AWG	14 AWG	12 AWG
15	1800	14 AWG	12 AWG	10 AWG
20	2400	12 AWG	10 AWG	
25	3000	12 AWG	10 AWG	8 AWG
30	3600	10 AWG	8 AWG	
35	4200	8 AWG	6 AWG	
40	4800	6 AWG		

Service Precautions

1. **DO NOT OPEN HOUSING.**



Contains no user-serviceable parts. **Internal parts may be electrified, even with Power Station off and power disconnected.**

2. Maintain labels and nameplates on the Power Station. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

3. Have your Power Station serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the Power Station is maintained.

4. Avoid battery deep discharge by charging the Power Station every 3 to 6 months.



SAVE THESE INSTRUCTIONS.

Specifications

Output	Waveform: Pure Sine Wave ¹ AC: (4x) 120V, 10A, 60Hz 1200W Running, 2400W Starting USB-A: (3x) 5V, 2.4A USB-C: (1x) PD 100W, (2x) PD 60W (5V/9V/12V/15V/20V) Car Output Port: 12VDC, 10A, 120W Max
Input	AC (Charge only): 120V, 60Hz, 800W, 6.7A Max AC (EPS only): 120V, 60Hz, 1200W, 10A Max AC (Charge + EPS): 120V, 60Hz, 1750W, 14.5A Max DC CAR or Solar: 12~17VDC, 9A Max DC Solar: 17~50VDC, 25A, 400W Max
Solar Input Controller	MPPT
Estimated Charge time to 100%	AC: 1.6 Hours Solar: 3 Hours @ 400W input Car: 10.5 Hours
Battery	LiFePO4 (Lithium Iron Phosphate) 25.6V, 1059.8 Wh
Operating Temperature	Charging: 0-40°C (32-104°F) Discharging: -10-40°C (14-104°F)
Pass-Through Charging	Yes
EPS (Emergency Power Supply)	Yes-within 15 mS
Weight	33.5 lbs.
Accessories	AC Charging Cable Car Charging Cable Anderson-to-MC4 Solar Cable

Note: Battery charge level, wire length and other factors will affect performance.

¹ THD - < 3%



Changes or modifications not expressly approved by Harbor Freight Tools could void the user's authority to operate the equipment.

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:

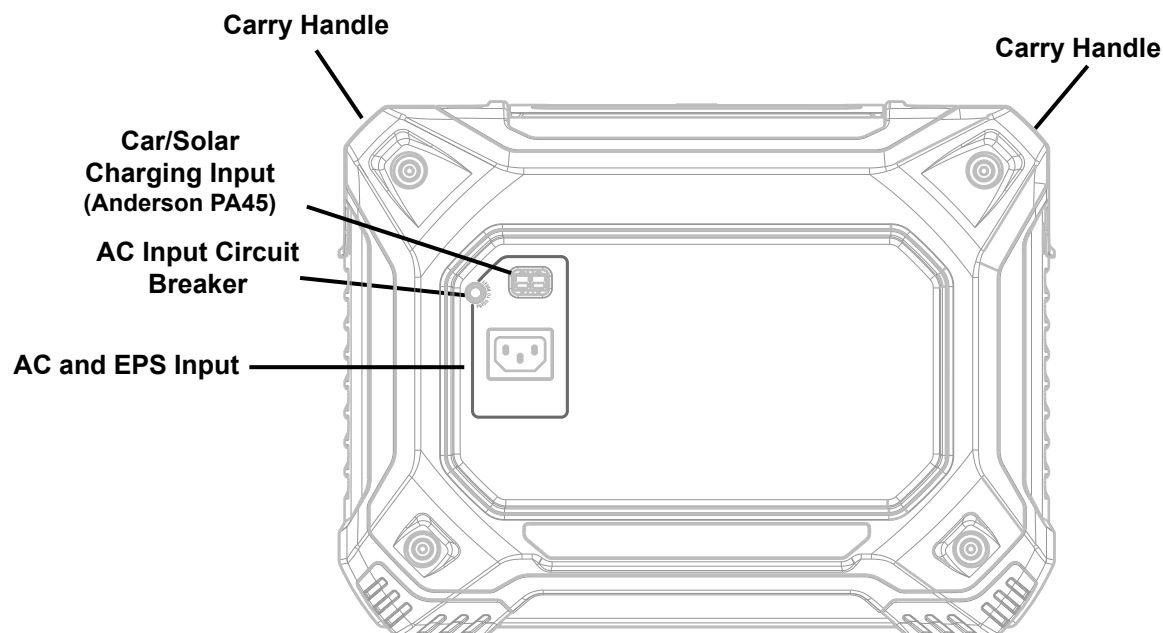
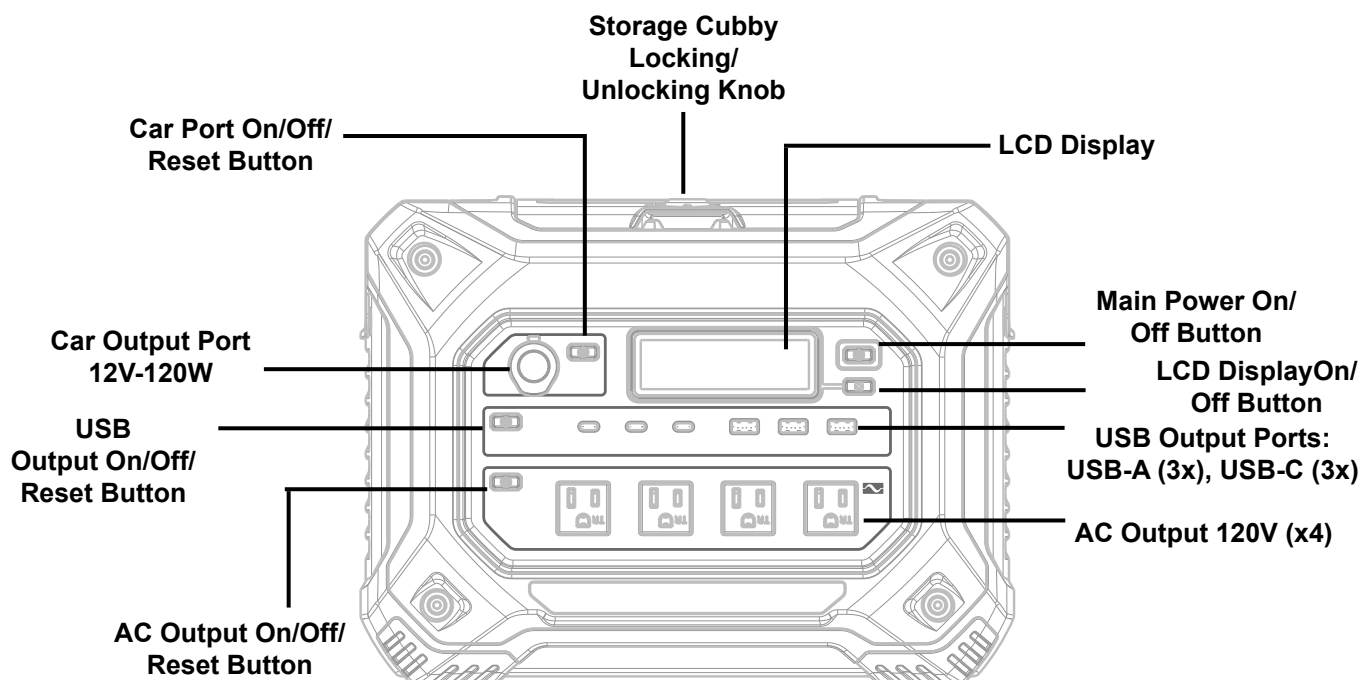
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Setup

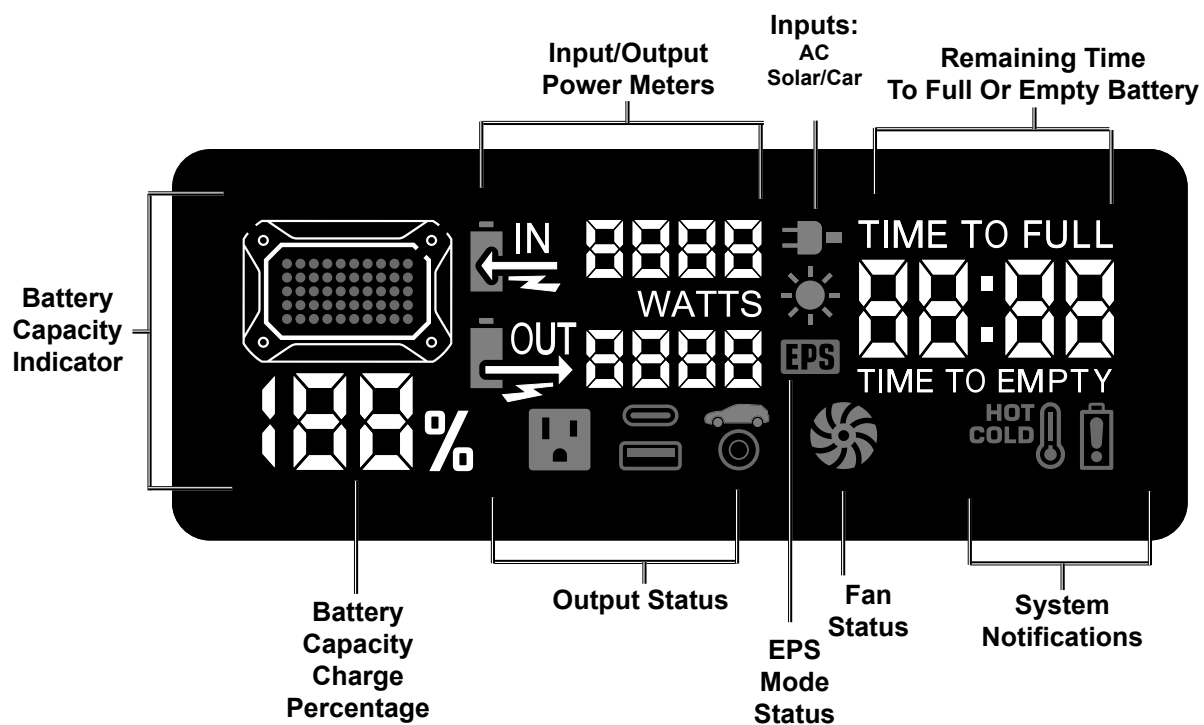


Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

Components and Controls



LCD Display



PREDATOR™

Precautions

1. Inspect supply connections before use to ensure they are tight and that insulation is not damaged.
2. Some rechargeable devices can damage the Power Station. Check the temperature of the device several times when it is charging. If the device becomes extremely hot or causes the Power Station to shut down; turn the power off, remove the device, and do not use with the Power Station again.
3. Check for breakage of parts and any other condition that may affect the Power Station's operation. If damaged, have it repaired before use.
4. Do not attempt to power a device, or combination of devices, that will require more than the rated output of this Power Station. This may damage the Power Station or the attached devices.
5. Be aware that appliances will normally draw more than their rated current.
6. Some fans with synchronous motors may slightly increase in speed when powered by the Power Station. This is not harmful to the fan or to the Power Station.
7. Place the Power Station on a dry, level, non-flammable, stable surface. Make sure the Power Station has adequate ventilation and is not in direct sunlight.
8. The Power Station will consume some power while on, even without loads attached. Turn Power Station off after use.
9. The Power Station has a number of shut-down points for the safety of the operator, the Power Station, and the devices being used with it. The unit will shut down if any of the following occur:
 - a. AC or Solar input exceeds maximum rated voltage.
 - b. Output power rises higher than rated power of Power Station.
 - c. Internal Power Station temperature exceeds acceptable range.

Note: Even though this Power Station has built-in mechanisms to minimize damage, the above situations should be avoided because they can still damage the Power Station.

Charging the Power Station

IMPORTANT: Fully charge Power Station before first use.

1. Connect AC, Car or Solar charging cord into back of unit.

CAUTION! To prevent personal injury and property damage: Use provided 14AWG AC Charge Cable only.

Note: AC and DC (Solar or Car) charging sources may be used simultaneously.

2. The LCD display is programmed to stay ON during charging cycle. Press LCD button to turn if off. (This will not affect charging process.)

CAUTION! To prevent personal injury and property damage: When using Car charger, only charge from a vehicle with 12V electrical system. Do not charge this unit from a 24V vehicle.

CAUTION! To prevent personal injury and property damage: Charge Power Station with vehicle running to prevent draining vehicle battery.

EPS (Emergency Power Supply)

Note: When standalone power mode is on (No AC input) the AC receptacle's ground is isolated from Neutral (Neutral Floating). When the Power Station is connected to the grid system, the AC receptacle's ground bonds to Neutral under EPS mode.

1. Connect AC Input and turn on AC output to pass the AC input directly to the AC receptacles.

CAUTION! To prevent personal injury and property damage: Do not exceed 1200W when connecting load to AC Output.

Note: When AC input removed from grid, the power station will automatically switch to Standalone Power Mode within 15mS.

Note: If the battery requires charging the AC input will indicate "Charge+EPS" on the LCD.

CAUTION! To prevent personal injury and property damage: Do not connect Power Supply to high uninterrupted power requirements.

Powering Devices

Note: Devices can be run while Power Station is charging.

1. Press the LCD Power Button to turn on the display. The display will also turn on when any of the On/Off buttons are pressed.

Note: During use/discharge the display is programmed to stay ON for 2 minutes, then go dark automatically. To override, press and hold LCD button for 3 seconds until a "chirp" is heard and LCD flashes twice.

2. Press the appropriate On/Off button(s) for the desired charging port(s).
3. Plug appropriate cable(s) into the Power Station.
4. Turn the device(s) on, one at a time. If an overload indicator illuminates (see *Troubleshooting* on page 12), turn off the device(s). Unplug the device(s) from the Power Station. Check the wattage of the devices; if there were multiple devices plugged in, discontinue use of one or more. If a single device triggered the overload indicator, it is not appropriate for use with the Power Station.

NOTE: Some rechargeable devices may damage the Power Station or the device(s). When first using a rechargeable device, check the Power Station's temperature for the first ten minutes.

If it becomes abnormally hot or shuts down, do not use the device with the Power Station.

5. When the AC output is not in use, turn it off using the AC On/Off button to preserve battery charge.
6. The Power Station will shut off automatically if unused. It will shut off after 1 hour for AC or DC output modes, or after 2 hours for USB output mode.
7. When battery capacity reaches 5%, the battery icon will flicker. When battery reaches 0%, the Power Station will beep three times, then shut down.

Typical Device Power Consumption

Product	Wattage	Product	Wattage
Laptop	50	Laser Printer	400
Stereo	200	Food Processor	400
Mixer	200	Reciprocating Saw	600
Table Fan	200	AC (5,000 BTU)	700
TV-VCR	250	Vacuum	750
Plug-in computer	250	Chest Freezer	800
Small Refrigerator	350	Coffee Maker	1000
Jigsaw	350	Iron	1050
Belt Sander	350	Mini Microwave	1200
3/8" Drill	350	Hair Dryer	1200
Blender	350	Slow Cooker	250
CPAP	65	Full Refrigerator	700

Note: The above chart is intended as a general guideline only; actual device wattage requirements may vary. Check device manufacturer's specifications before connecting to Power Station.

Solar Charging Connection Guide

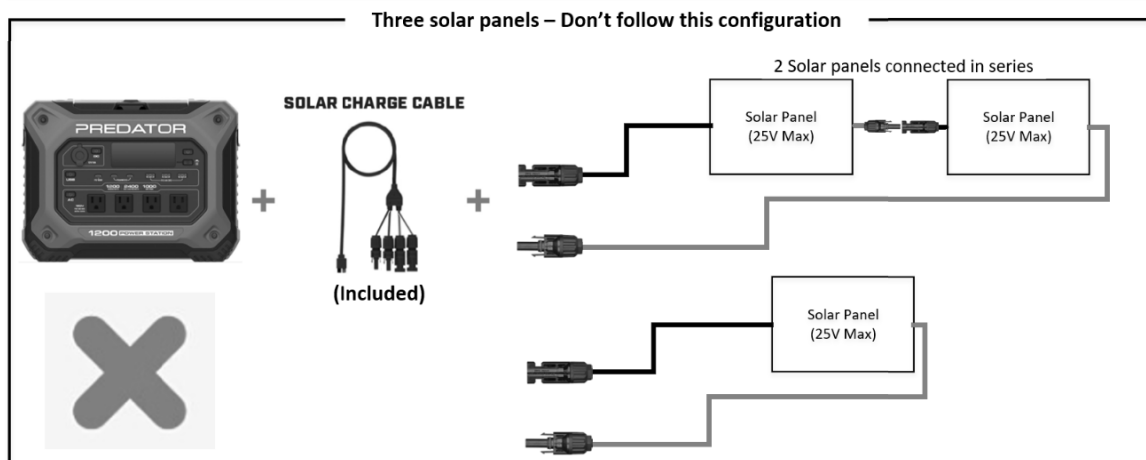
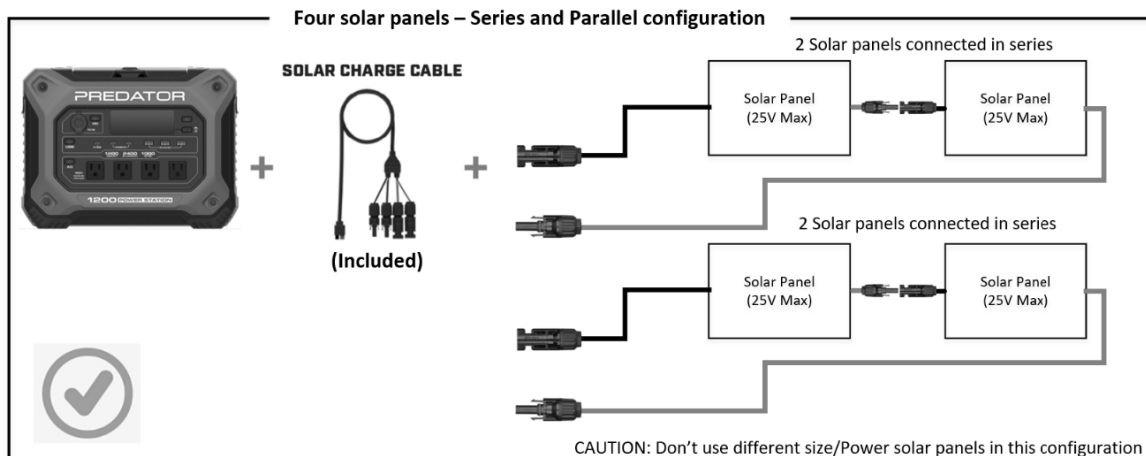
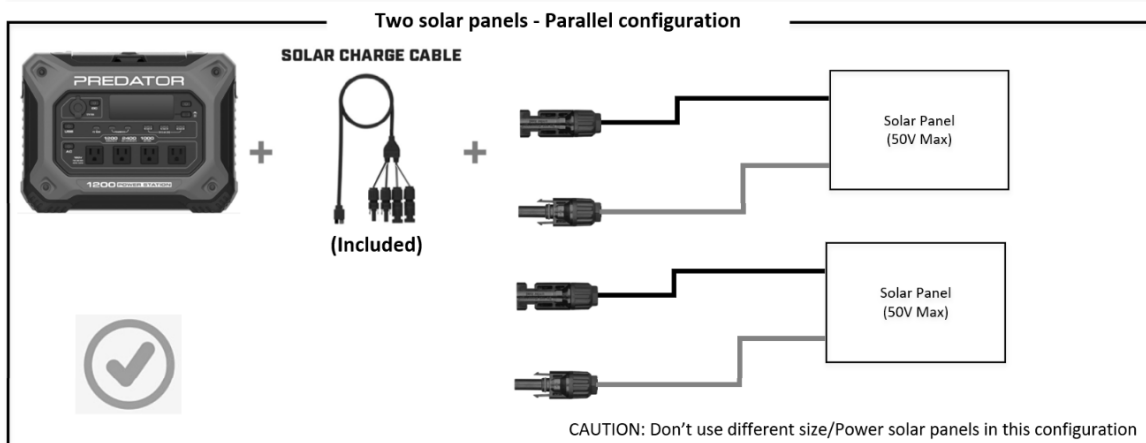
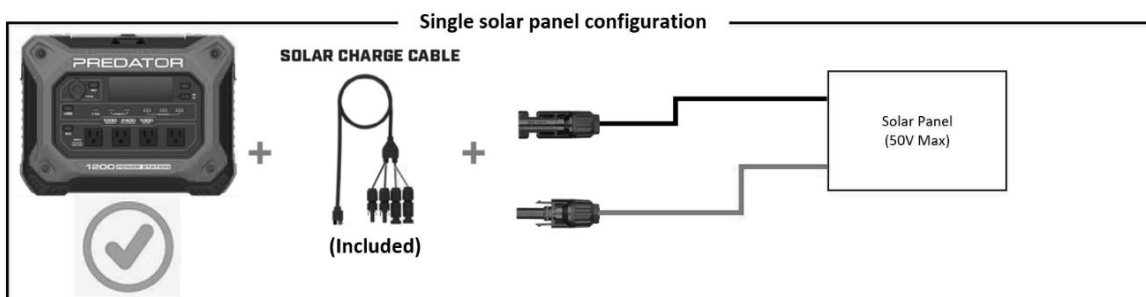
CAUTION! To prevent personal injury and property damage: Do not connect more than 50VDC to the Power Station When using solar panels. When more then one solar panel is connected ensure they are identical.

SAFETY

SETUP

OPERATION

MAINTENANCE



Maintenance and Servicing



Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠ WARNING

TO PREVENT SERIOUS INJURY FROM ELECTRIC SHOCK:

Disconnect Power Station from power source before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM POWER STATION FAILURE:

Do not use damaged Power Station. If abnormal noise, vibration, or heating occurs, have the problem corrected before further use.

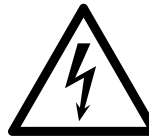
Wear splash-resistant ANSI-approved safety goggles and electrically insulated gloves while working near batteries.

1. **BEFORE EACH USE**, inspect the general condition of the Power Station. Check for:

- loose hardware,
- damaged cord/electrical wiring,
- cracked or broken parts, and
- any other condition that may affect its safe operation.

2. **AFTER USE**, clean external surfaces of the Power Station with clean, dry cloth.

3. **DO NOT OPEN HOUSING.**



Contains no user-serviceable parts.
Internal parts may be electrified, even with Power Station off and power disconnected.

4. Do not expose Power Station to rain or other liquids, or extreme temperatures.
5. The Power Station must be fully charged before first use, and recharged within 7 days after use. Then fully recharge every 3 to 6 months.
6. Internal electronic components must be disposed of properly or recycled.

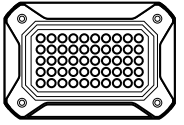
Troubleshooting

SAFETY

SETUP

OPERATION

MAINTENANCE

Problem	Explanation	Probable Solutions
 Icon flicker	AC Output overload	Check connected devices and wires. Press AC button to reset.
 Icon flicker	USB-A overload	Check connected devices and wires. Press USB button to reset.
 Icon flicker	Type-C overload	Check connected devices and wires. Press USB button to reset.
 Icon flicker	Car Output overload	Check connected devices and wires. Press Car Output button to reset.
 Icon flicker	Input DC charge (Solar) overload	Check solar setup; make sure input voltage is within specified range.
	High temperature	Allow unit to cool. Unit will automatically reset once operating temperature is reached. Avoid exposure to direct sun; allow sufficient air flow around unit.
	Low temperature	Move unit to area with proper temperature. Unit will automatically reset once operating temperature is reached.
 % Icon flicker	Power Station battery at 5%.	Charge unit soon.
	System/battery pack protection	System fault, or out-of-range temperatures. If unit fails to auto-reset, contact customer service.
Unit beeps 3 times and shuts down.	Battery discharged.	Charge battery.
No output voltage.	1. Output (AC/USB/Car) is not turned on. 2. Power Station battery is low. 3. Cords not connected properly.	1. Turn on desired output. 2. Charge Power Station battery. 3. Check and secure connections.
Could not drive load.	1. The AWG of the wire is too low. 2. Start power of device exceeds rated power of Power Station. 3. Battery capacity too low to support starting power.	1. Use appropriately-sized cable connections. 2. Reduce load, or change devices. 3. Charge battery.
 Follow all safety precautions whenever diagnosing or servicing the Power Station. Disconnect power supply before service.		

Note: If error codes displayed on digital screen (E:01-E12), please call customer service 1-800-444-3353.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

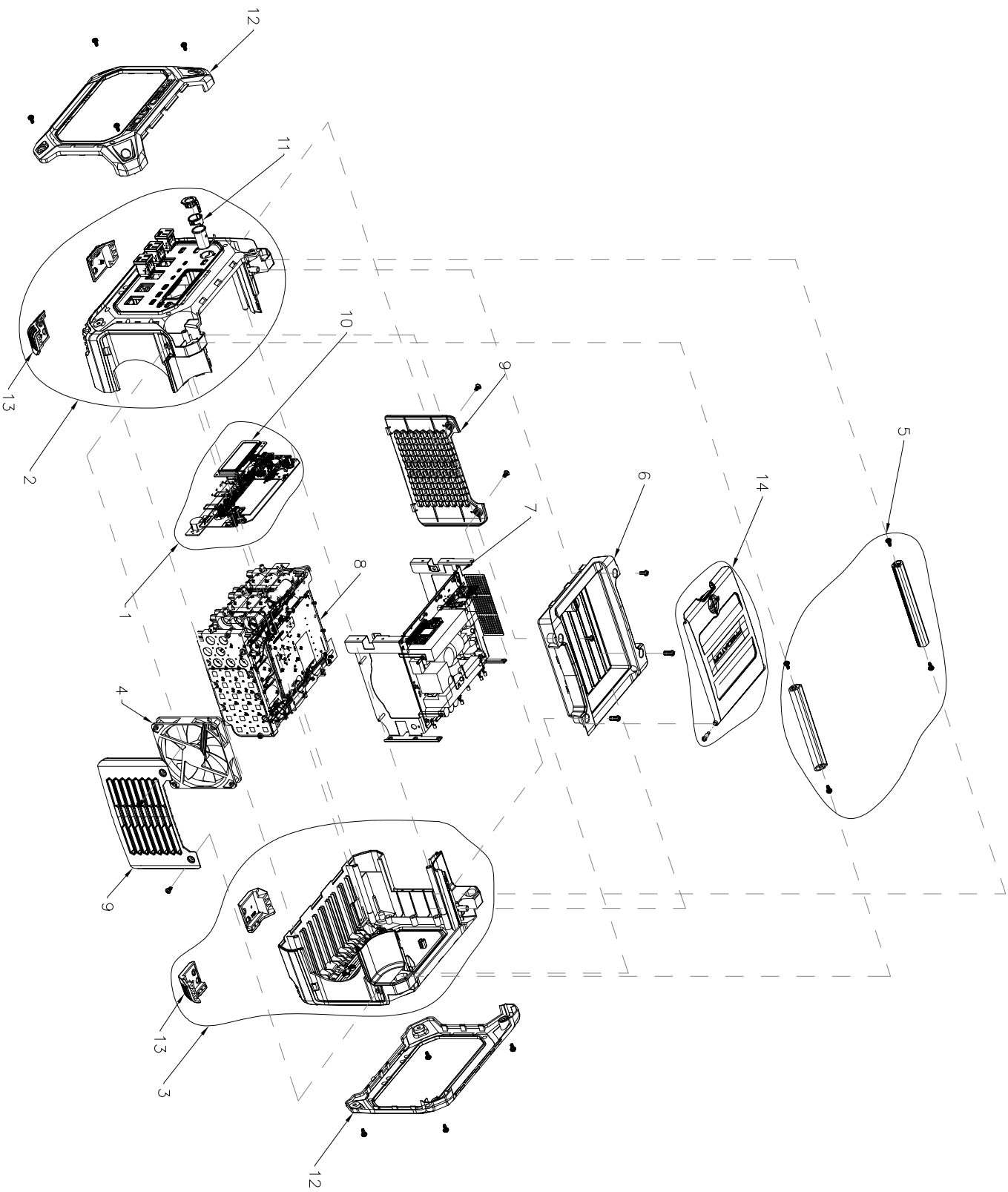
Parts List

Part	Description	Qty
1	PCBA Module	1
2	Front Housing Assembly	1
3	Rear Housing Assembly	1
4	Fan	1
5	Handle Assembly	1
6	Upper Cover Assembly	1
7	Inverter Module	1
8	Battery Pack	1
9	Side Cover	2
10	LCD Screen	1
11	Car Port Assembly	1
12	Decorative Cover	2
13	Foot Pad	4
14	Upper Cover	1

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Internal parts are not user-serviceable. Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Reference UPC 193175488688.



5-YEAR LIMITED WARRANTY

This PREDATOR product is warranted to the original purchaser to be free from defects in materials and workmanship for a period of five (5) years beginning on the date of purchase. To obtain warranty service, visit your local Harbor Freight retail store. Warranty registration is not required. The product or part must be returned to us with proof of purchase (e.g. in-store receipt or packing slip/invoice) and may require shipment by purchaser to a service center at purchaser's expense. If our inspection verifies a covered defect in materials or workmanship during the warranty period, we will, at our option, repair or replace the defective product. We will return repaired products within a reasonable time at our expense, but if we determine that there is no defect, or that the defect resulted from causes not within the scope of our warranty, then we will return the product to you if you pay return shipping costs.

This warranty does not cover any failure or damage that we determine is due directly or indirectly to normal wear and tear, misuse, use not for the intended purpose or not in accordance with the product manual, abuse, accident, rental, modification or alteration, unauthorized disassembly or repair, improper installation, neglect, exposure to liquids or extreme temperatures, lack of maintenance (including failure to follow all operating and maintenance instructions), or any other failure not arising from defective materials or workmanship. Fraudulent returns or claims will be denied. The repair or replacement described in this warranty shall be your sole and exclusive remedy. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL, AND ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND OTHERWISE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. HARBOR FREIGHT SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR COSTS ARISING FROM THIS WARRANTY OR THE USE OF THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THESE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

PREDATOR™

26677 Agoura Road • Calabasas, CA 91302 • 1-800-444-3353