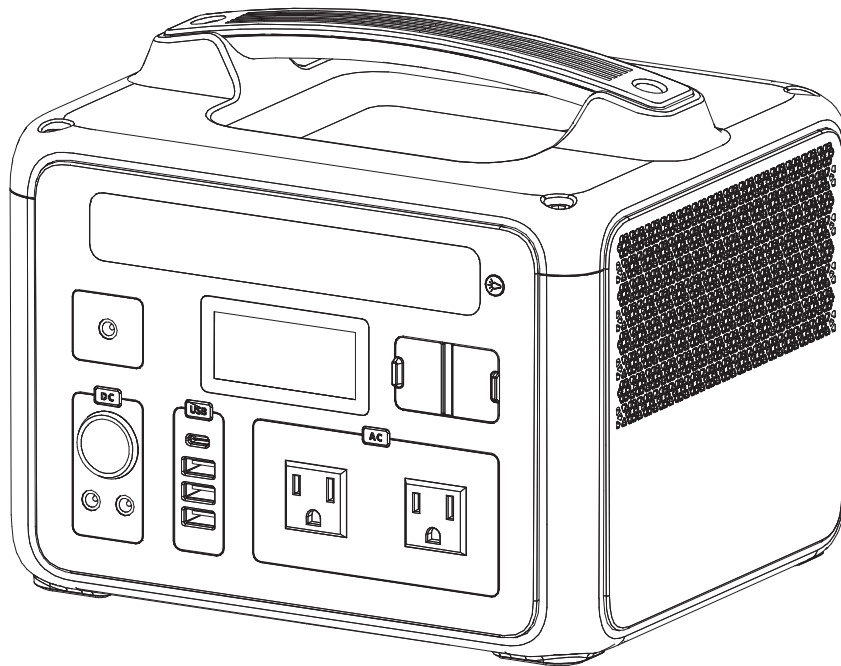




PB-20

600W PORTABLE POWER STATION OWNER'S MANUAL



Our Customer Service staff is ready to provide assistance.

In the case of a damaged or missing part, most replacement parts ship directly from Merotec USA in Atlanta or from one of our service partners in the US & Canada.

For immediate help with assembly, or for additional product information, email support@MerotecUSA.com. Or for the USA call 1-866-902-9690 M-F 8:30am – 5:00pm ET, for Canada call 1-833-818-4111 M-F 9:00am – 5:00pm ET.

More information can be found on www.MerotecUSA.com.



SAVE THIS MANUAL FOR REFERENCE

You will need this manual for safety instructions, operating procedures, and Warranty.



The original sales receipt is required for warranty service.



PB-20 Original Instructions

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SAFETY INSTRUCTIONS

READ AND UNDERSTAND ALL INSTRUCTIONS.



WARNING! When using electric appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

WARNING! Read all instructions. **WARNING!** This product maybe contains lead, phthalate or other chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Please wash your hands after use.

For more information go to www.P65warnings.ca.gov.

1. Before start using our product, carefully read all instructions.
2. Do not connect electronic products which exceed the operating specifications of this product.
3. Do not connect damaged cables or terminals to the product. Doing so may cause electric shock or damage to the product.
4. Keep the product dry. Do not expose the device to wet conditions. Do not submerge product in liquid.
5. Do not insert fingers or other foreign object into any ports or receptacles.
6. Use this product in a well-ventilated area. Do not block or obstruct vents on the product. Do not expose product to smoke or sparks.
7. Do not subject this product to drop, severe vibrations or violent impact.
8. Do not operate in excessively cold temperatures. Operating in temperature below specified limit may permanently damage the device and shorten the lifespan.
9. Do not expose the product to fire, heat source, or excessive temperature. Exposure to flames or high temperatures may cause an explosion.
10. Do not use the product in rain, humid environments, snow or frost, or dusty environments. Use in these conditions may damage function, batteries, and/or lifespan.
11. Do not disassemble the product. Do not pierce the product with sharp objects. These may cause electric shock, fire, or explosion.
12. Keep away from children. Do not allow children to operate this product.
13. Under extreme conditions the battery may leak fluid. If skin exposure occurs, wash with soap and water. If eye exposure occurs, flush with water for at least 10 minutes then seek emergency medical care immediately.
14. When disposing of product, observe your local laws.
15. If conditions permit, make sure that the battery is fully discharged before disposing of it in a designated battery recycling bin. The product contains batteries with potentially hazardous chemicals, therefore it is strictly prohibited to dispose of tin ordinary trash cans. Please follow the local laws and regulations regarding battery recycling and disposal.
16. If the battery cannot be fully discharged due to product failures, do not dispose of the battery directly in the battery recycling bin. In such case, contact professional battery recycling authority for further processing.
17. Over-Discharged batteries that cannot be recharged should be disposed of.

DESCRIPTION OF SYMBOLS



WARNING: Please read all of the safety and operating instructions carefully before using this tool. Please pay particular attention to all sections of this User Manual that carry warning symbols and notices. Some of the following symbols may be used on this tool.



Read the manual.



To avoid possibility of electric shock, do not use in damp or wet conditions.



WARNING! - Turn the machine OFF and disconnect it from the power supply before inspecting, cleaning, changing accessories, or conducting any other maintenance task.



Immediately remove the plug from the mains if the power cable is damaged, frayed, or entangled. Always keep the power cable away from heat, oil, and sharp edges.



DANGER! - Beware of electric shock.



The cable will get hot while working. Please DO NOT touch it to avoid injury.

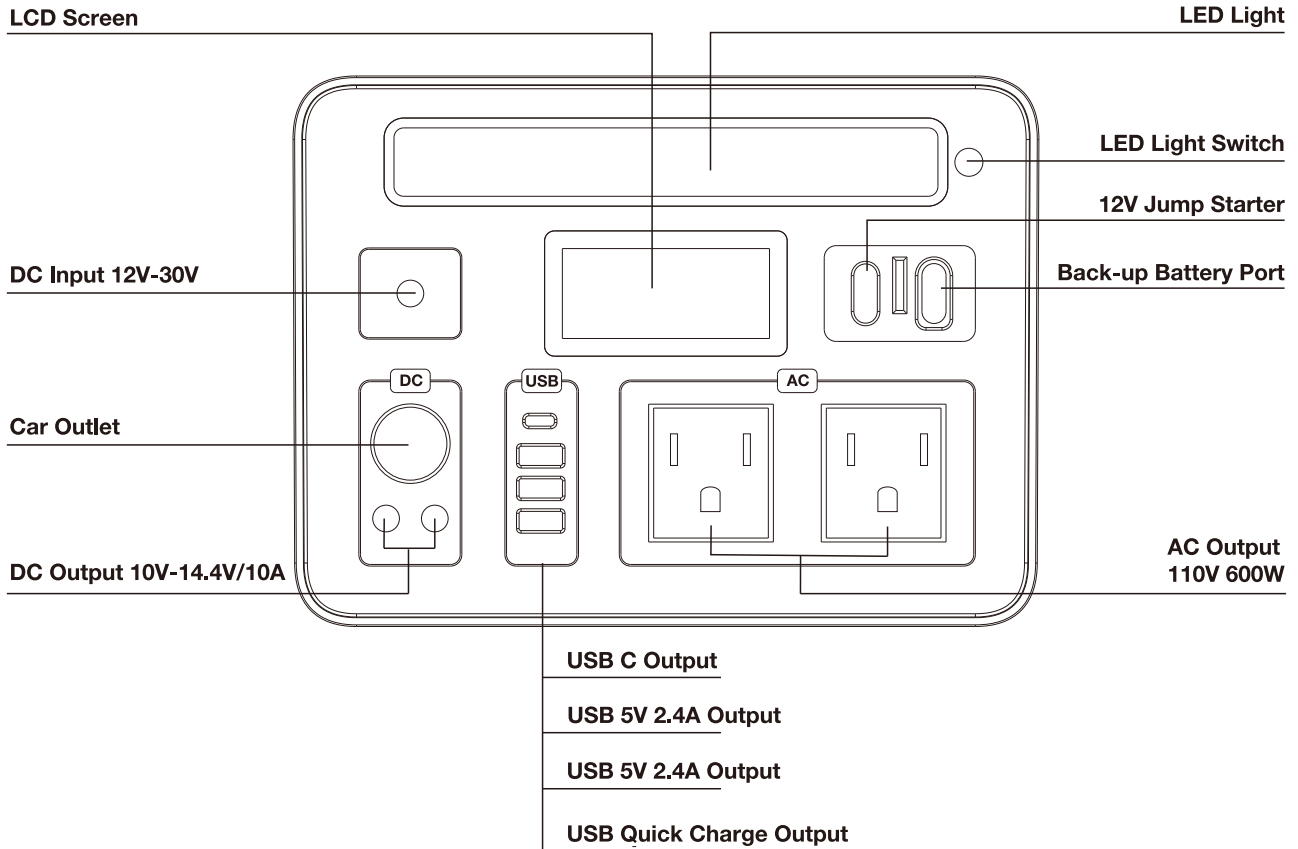


Recyclable.



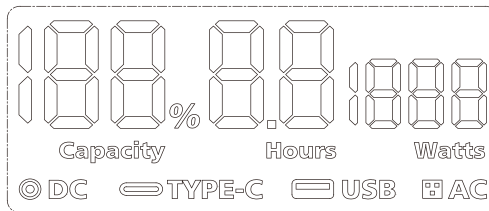
Return any discarded batteries to your local dealer, collector or recycle point. It is not permitted to dispose of this product as normal household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

PARTS LIST



LCD Screen

When you press any power button, the LCD screen will light up displaying charging or discharging status, Battery Power, Available Time (Hours), and Power Consumption (Watts) will be displayed on the screen.



The current battery capacity, it is displayed as a percentage (%).



Available time at the current power.



The current total input/output power.



Press the [DC] button to turn on the DC output function.



Press the [USB] button to turn on the USB output function.

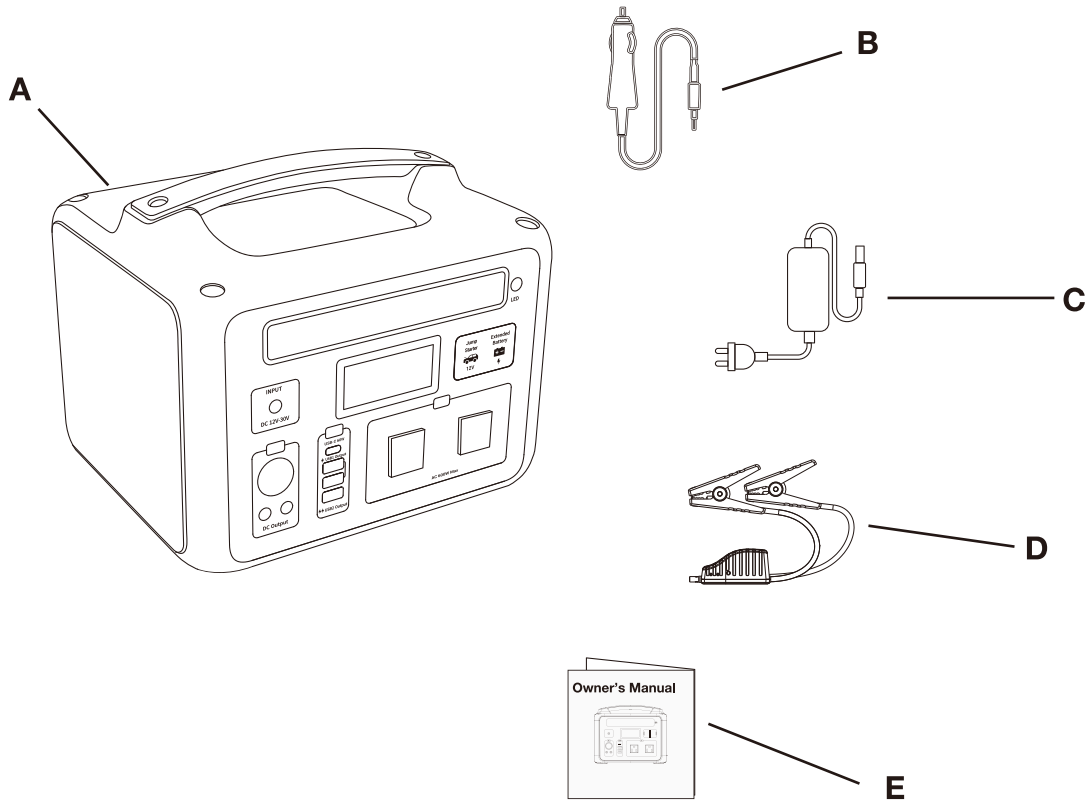


Press the [TYPE-C] button to turn on the TYPE-C output function.



Press the [AC] button to turn on the AC output function.

PARTS LIST



- A. Portable Power Station x 1
- B. Car Charger Cable x 1
- C. AC Charger Cable (2 Parts) x 1
- D. Intelligent Clamp x 1
- E. Owner's Manual x 1

PRODUCT SPECIFICATIONS

Model	PB-20
Battery Type	Lithium-ion Battery
Capacity	640 Wh
Input	12 V-30 V (100 W MAX)
DC Output	Car Charger + DC (x2): 10 V-14.4 V/10 A
USB Output	USB-C: 5 V 3 A/9 V 3 A/12 V 3 A/15 V 3 A/20 V 3 A (60 W MAX) USB1(x2): 5 V/2.4 A USB2 Quick Charge: 5 V 3 A/9 V 2 A/12 V 1.5 A (18 W MAX)
AC Output	AC 110 V/60 Hz (Continuous: 600 W, Peak:1200 W) Output wave: Sine wave
12 V Jump Start Output	12 V Jump Start (Start Current: 500 A; Peak Current: 1000 A)
Protections	Over-current, Short Circuit, Over-voltage, Over-charge, Over-discharge, Over-temperature, Lack voltage.
LED Lamp	10 W LED
Working Temp.	-4°F ~ 113°F
Charging Temp.	32°F ~ 113°F
Weight	20 lbs (9 kgs)
Size	10.4 x 8.7 x 8.5 in.
Certificates	NRTL, CE, RoHS, FCC, UN38.3

OPERATION

Instructions for Use



Warning! Fully charge the power station before first use.

Power ON --- Press any button to turn ON the power station. The display screen will light up to indicate the power station is on.

Power OFF--- With all outputs OFF the power station will enter standby mode after 30 seconds. The display will dim.

Operation

The display screen will indicate if an output is On or Off.

- Press the AC button to turn ON or OFF the AC outputs.
- Press the DC button to turn ON or OFF the DC outputs.
- Press the USB button to turn ON or OFF the USB outputs.

Low-load Detection and Automatic Shut Off

The power station features low-load detection, and will automatically check output wattage after 6 hours.

- When the AC, DC, or USB output is set ON, the output will remain active for 6 hours.
- While an output is on, If any button is pressed the 6-hour ON period will restart.

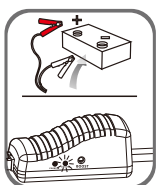
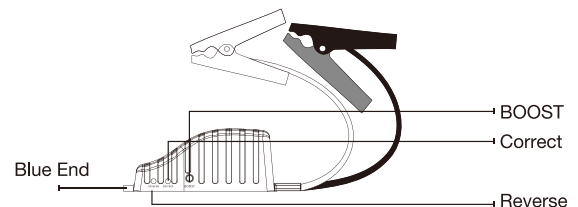
After a complete 6 hour ON period, the power station will enter low-load detection mode. The screen will dim.

- For all outputs during low-load detection: if load is above 10W, the outputs will remain on for an additional 6 hours.
- For AC and DC outputs, if the load is 10W or below, the power station will be in low-load detection mode for 2 hours. If the load is not raised above 10W the power station will shut off after 2 hours.
- For USB outputs, if the load is 10W or below, the power station will be in low-load detection mode for 30 minutes. If the load is not raised above 10W the power station will shut off after 30 minutes.

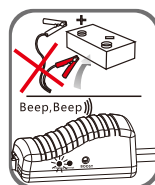
Note: Temperature will effect the unit's operation. Only charge the unit between 32°F ~ 113°F. Only operate or store the unit between -4°F ~ 113 °F.

Jump starting a 12 V vehicle

1. Completely connect the blue plug to the unit. Make sure the indicator lights on the cable are off.
2. Connect Red Clamp to the positive (+) battery terminal, Black Clamp to the negative (-) battery terminal.
3. Verify correct connection using the below instructions and LEDs on the cable:

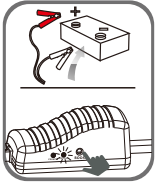


GREEN LED ON:
Connection is correct and circuit is working. You may start the vehicle.



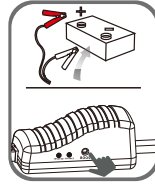
RED LED ON WITH BEEPING:
Connection is incorrect. Connect the clamps as mentioned in step 2. Wait for the GREEN LED to turn on before starting vehicle.

OPERATION



GREEN LED BLINKING:

Vehicle battery is low. Press the "BOOST" button on the cable. Wait for the GREEN LED to turn solid. When solid, start vehicle within 30 seconds.



NO LEDS ON, NO BEEPING:

Vehicles battery may be damaged. Confirm the clamps are connected correctly. Next, press the "BOOST" button on the cable. Wait for the GREEN LED to turn solid. When solid, start vehicle within 30 seconds.

4. Start the vehicle.
5. After the vehicle starts, remove the jumper cable clamps from the vehicle battery. Leave the vehicle's engine running.



CAUTION! Do not press the "BOOST" before connecting the car battery. Do not connect the clamps to each other. Only for 12V vehicles, RED clamp for "+", BLACK clamp for "-".

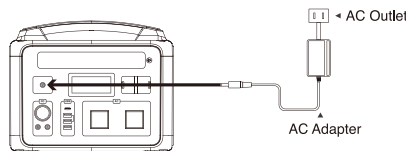
LED Light Functions

The LED lamp has several functions. Pressing the LED ON button will cycle through these functions. All below functions assume the LED is off:

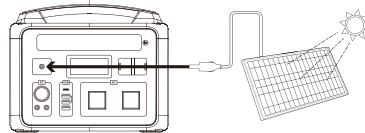
- Press (1) time for low lamp mode.
- Press (2) times for medium lamp mode.
- Press (3) times for high lamp mode.
- Press (4) times for burst flash mode.
- Press (5) times for SOS signal mode.
- Press (6) times to turn off the LED lamp.

Charging the Power Station

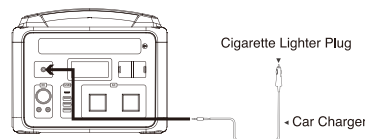
1. Connect the AC charger cable to a wall outlet. Connect the other end of the charger cable to the power station input. Full charge time estimated 11 hours.



2. For solar powered charging, place the solar panel in direct sunlight. Connect the solar panel to the power station input. Full charge time estimated 7- 8 hours.



3. For charging with a 12 V vehicle, connect the 12 V charge cable plug into the vehicle's 12 V outlet. Connect the other end of the cable to the power station input. Full charge time estimated 10-11 hours.



Note: The power station outputs may be used while the unit is charging.

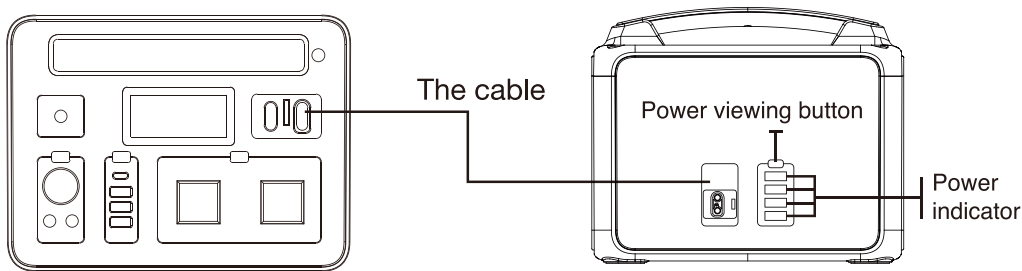
The above data is for reference only. The estimated charging time data was determined under ideal conditions in a laboratory. Your charge times may differ.

FAQ

Connecting a back-up battery (If equipped)

This power station can be connected to a back-up battery (if equipped), expanding the capacity. The power station and the back-up battery can be connected with a cable.

When charging, the power station battery will be charged first. The back-up battery will be charged after the power station battery has been fully charged. When discharging, the back-up battery will be discharged first and switch to the power station battery automatically after the back-up battery runs out of power.



**WARNING! The cable will get hot while working.
Please DO NOT touch it to avoid injury.**

FAQ

Q. Can the power station be taken on an airplane?

A. No. This product contains lithium-ion batteries measuring over 100 Wh. Per the International Air Transport Association these are prohibited on airplanes.

Q. Is it normal for the power station to make sounds while in use?

A. This power station uses an internal fan to cool while in use. It is normal for the sound of this fan to be heard.

Q. Why can't some appliances be powered even when it's within the rated power range of the power station?

A. 1. Power Station capacity is low. Recharge the power station.
2. When first connected, some appliances draw more power than the appliance's rated operating power. This may be more than the power station's maximum power.

Q. While charging the charger is getting hot. Is this normal?

A. The charger will get slightly hot while plugged in. This is normal. If the charger is getting too hot, disconnect the charger and allow it to cool.

Q. Can the power station be used to jump start cars?

A. Yes. Refer to the section "Jump starting a 12 V vehicle" for more information.

Q: Is the actual output capacity of the product consistent with the capacity stated in the user manual?

A: The capacity indicated in the owner's manual is the rated capacity of the battery pack of this power station. Since this power station has some efficiency loss during charging and discharging process, the actual output capacity of the power station is lower than the capacity specified in the owner's manual.

TROUBLE SHOOTING

Problem	Analysis	Solution
The product cannot be charged.	The charger is not completely connected to the unit. The charge indicator light is off.	Completely connect the charger to the power station.
	Charger is connected correctly, but the charge indicator light is off.	Charger is damaged, contact the customer service.
	Indicator light on, but still cannot charge.	The unit is damaged.
Appliances connected to the station outputs are not receiving power.	Appliances are not connected correctly, or the power cable is damaged.	Completely connect power cables to the power station. If cables are damaged, unplug from the power station and have them replaced by a qualified electrician.
	The output button is off.	Set the output button to on.
	The appliances electrical draw is higher than the power station's max. output.	Do not connect an appliance with a higher power requirement than the station's max. output. Use a Perun power station with a larger capacity.
	The power station's charge is low.	Charge the power station.
	All of the above solutions have not resolved the issue.	The unit may be damaged, contact customer service.
Output power is interrupted.	The appliance power requirement is higher than the power station's max. output.	Do not connect an appliance with a higher power requirement than the station's maximum. Use a Perin power station with a larger capacity.
	The appliance power requirement is too small to be recognized by the power station.	Re-start the power station.
	All of the above solutions have not resolved the issue.	The unit may be damaged, contact customer service.

MAINTENANCE AND STORAGE

When storing, please turn off this product first, and then store it in a dry, ventilated place at room temperature. Do not place this product near water sources.

Temporary storage : 3 months or less

1. Disconnect all cables and turn off the power station.
2. The power station should be stored in a cool dry place. Recommended storage temperature range is: -4°F~113°F.
3. Store the station with more than 50% charge.
4. Keep the unit away from corrosive substances, fire and heat sources.

Long term storage: More than 3 months

1. Store the power station with a full charge. It is strongly recommended the power station be fully charged one time every 3 months. The station must be fully recharged every 12 months.
2. Disconnect all cables and turn off the power station.
3. Keep the unit away from corrosive substances, fire, and heat sources.
4. Clean the power station using only a dry cloth or paper towel.

WARRANTY

USA WARRANTY

Product Warranty

Please keep your original purchase receipt in a safe place as proof of purchase. Warranty coverage for this product must be verified by the original purchase receipt.

The warranty period begins on the day that the product was purchased from an authorized retailer of Merotec products. Warranty coverage only applies to the original purchaser and is not transferrable.

Warranty coverage is only provided on products purchased from authorized Merotec retailers.

Warranty only applies to products purchased and OPERATED in the USA & Puerto Rico. Any product purchased or operated outside of the USA & Puerto Rico is not covered by any warranty.

(2) Two-Year Limited Warranty

The PB-20 Portable Power Station has a 2-Year Limited Warranty from the date of purchase against manufacturer defects for residential use only. Commercial use voids the warranty. This warranty does not cover accidental damage, unreasonable use, normal wear and tear, neglect or non-compliance with the Operating, Safety and Maintenance Instructions. All service, outside of normal maintenance as described in this manual, must be done by an authorized service technician. Any unauthorized service or changes to the original configuration of this product will void the warranty. All parts and accessories used on and with this product must be manufactured and or authorized by Merotec Inc.

(90) 90 Days Limited Warranty - Cables and Accessories

The accessories included with the Power Station including the charging cable and other similar parts are warranted against manufacturer defects for residential use only for a period of 90 days from the date of purchase. Warranty does not cover loss of use or other consequential damages arising from any of the above, nor does it cover repairs made or attempted by unauthorized persons.

This warranty is void if the product is used for commercial, rental or industrial purposes.

Certain parts, attachments and accessories are subject to normal wear and tear and are excluded from the warranty.

Service and Warranty Claims Process

Contact the Merotec Support Center toll-free at **(866) 902-9690 Monday-Friday between 8:30 AM and 5:00 PM ET** for service and warranty support.

Merotec Service Support agents can help you troubleshoot problems over the phone to get you back up and running as quickly as possible. In the situation where service or warranty inspection is needed, please follow these steps:

1. Call Merotec at **(866) 902-9690 Monday-Friday between 8:30 AM and 5:00 PM ET**.
2. Send in proof-of-purchase and serial number (if applicable) to confirm warranty Coverage as directed by Merotec.
3. If service or a warranty evaluation is requested, you must ship your product to Merotec. Merotec will provide an RGA number that should be used in all communications with Merotec and is required to be indicated on the product itself and on the outside of the box.
4. All shipments to Merotec must have an RGA number, Any shipment received that does not have an RGA number clearly marked on the outside of the box will be refused.
5. All shipments must be sent pre-paid, Merotec does not pay for any shipping costs for service or warranty evaluation. Merotec is not responsible for any packages that are lost by carrier. We recommend that shipments are made by a carrier that provides tracking and delcert confirmation.

For more information or to ask questions, please call toll-free **(866) 902-9690 Monday-Friday between 8:30 AM and 5:00 PM ET**.

SAVE THESE INSTRUCTIONS

WARRANTY

CANADA WARRANTY

Product Warranty

Please keep your original purchase receipt in a safe place as proof of purchase. Warranty coverage for this product must be verified by the original purchase receipt.

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Warranty coverage is only provided on products purchased from authorized Merotec retailers.

Warranty only applies to products purchased and OPERATED in Canada. Any product purchased or operated outside of Canada is not covered by any warranty.

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For more information or to ask questions, please call toll-free **1-833-818-4111 Monday-Friday, between 9:00 AM and 5:00 PM ET.**

SAVE THESE INSTRUCTIONS



Need Help?

Please do not return the product to your place of purchase yet. We're here to help and take care of all your needs.

Contact our customer service department for help with:

- Product assembly or use
- Missing or damaged parts
- Troubleshooting
- Replacement parts and accessories

You can submit a support request by scanning the QR code on this page, or by visiting:
www.MerotecUSA.com

Scan Code to connect with Merotec Support



1-866-902-9690 (US)
1-833-818-4111 (CA)



www.MerotecUSA.com

Register your product today to maintain warranty coverage and stay up to date with information on the use, care, maintenance and service of your product.

Register online today at:

www.MerotecUSA.com



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3655 Kennesaw North Industrial Parkway
Kennesaw, GA 30144
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Made in China

Part Number: PB-20MAN-A
2211