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MC

5210-080

HH0318

Manual





**MIDLAND
POWER** 

This product is supported by **Midland Power**. Contact us directly for assistance and warranty help. Do not return this product to store.

You must register online for your warranty to be valid. It only takes a minute, do it now while you still have your purchase receipt.

Register Your Product Online

www.midlandpowerinc.com



Support for your product is available online, including parts, service center locations, and live expert advice. Or call us anytime at **1-877-528-3772**.

Visit us online at

www.homehardware.ca



Thanks for choosing the HH0318!

You're excited to get started, we'll keep this brief.

READ THIS ENTIRE GUIDE BEFORE USING THIS PRODUCT AND SAVE FOR LATER USE.

This user guide contains important instructions including safety, setup, operation, and maintenance that must be followed. All information in this guide is based on information available at the time of print. This guide or revised editions can be found on our website for download. No part of this publication may be reproduced without written permission.



THIS PRODUCT MEETS ALL CERTIFICATION REQUIREMENTS FROM:



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1. SAFETY

DANGER!

- DO NOT disassemble, repair, or modify the unit or the battery.
- DO NOT place the unit close to fire, heat sources, or leave in direct sunlight.
- DO NOT connect the output socket to mains power under any circumstances.
- DO NOT expose to moisture or liquids, especially saltwater.
- Dispose of the unit properly according to local regulations.
- DO NOT dispose in regular household trash.
- DO NOT operate the unit above the specified input voltage, be especially careful with solar panels.
- DO NOT use this unit if your hands are wet.
- DO NOT use if the unit appears damaged.
- This product IS NOT permitted on aircraft.
- Inspect the unit prior to every use.
- Keep this product away from children and pets.
- Carefully read the instructions for the electric devices you intend to connect.
- Keep away from direct sunlight, water, dust, and dirt.
- DO NOT leave the unit outside in harsh environments.
- High temperatures can damage the battery and decrease the lifecycle and capacity.
- DO NOT leave outdoors overnight uncovered. The moisture from the dew may lead to a short circuit.
- DO NOT restrict the ventilation of the product in any way. Make sure to use the product in a ventilated environment.

2. FAQs

The estimated time remaining is off, what can I do?

The battery may become uncalibrated from certain use patterns or other factors, in most cases the battery is still healthy. If you notice a large difference between the predicted time remaining and how long your power station actually lasts, recalibrate the display by following these steps:

1. Charge up to 100%.
2. Discharge uninterrupted until the unit turns OFF, true 0%.
3. Charge back up to 100% plus 2.5 hours additional charging (at least 9.5 hours).

My display is stuck, what can I do?

Use a paperclip or similar to press the RESET button on the front control panel. The unit will shut down. Turn the unit back on and continue normal use.

Can I leave my power station plugged in all the time?

No, this unit is not designed to do so. This will lead to miscalibration of the display and harm the battery.

How should I store and charge my power station for long periods?

This power station will hold its charge for up to 1 year, not charging for longer than 1 year may cause harm to the battery. We recommend storage between 40-80% and topping up the charge every 3 months as needed. Do not store at 0% charge long term, batteries lose a few percent charge per month and within a few weeks your unit may be permanently damaged.

Can I fly with the power station?

No, FAA regulations allow a maximum of 100Wh batteries on a plane.

Can I use both AC and DC ports at the same time?

Yes, all ports can be used at once, provided the total draw is less than the rated wattage.



What will happen if I plug in a device over the rated wattage?

The unit will stop operation and display an overload error message. Turn the unit OFF and then ON again to reset the system.

Can I use this with my CPAP Machine?

Absolutely. CPAP operation using DC ports will allow longer runtime than AC ports. Runtime will differ greatly based on heat, humidity, and pressure settings.

Can the power station jump start a car?

No, but it is capable of recharging a car battery through a trickle charger.

Will the power station automatically shut down with no power draw?

Yes, it will shut down after 10hrs. This duration was designed to ensure fridges operate properly.

Can I leave my power station plugged into a solar panel 24/7?

Yes, you can leave your power station plugged into a solar panel indefinitely however you may find it loses charge overnight because the solar panel is not producing any power, it will actually draw a small amount of power from the battery when it is dark out if left plugged in. The solar panel will then charge the power station back up the next day.




Can I add a deep cycle battery to increase the capacity?

No, this power station is not expandable with additional batteries.

Will the USB-C PD (Power Delivery) Port power my Laptop?

Yes, it can provide up to 60W of charging power.

3. TROUBLESHOOTING

Problem	Solution
My power station shut down while powering my device.	If the AC icon  on the digital display is blinking, the unit has overloaded. Press the AC button to OFF and then ON to reset. Max power limit for AC is 320W.
	If the High Temperature icon  on the digital display is blinking: Turn all ports off and remove unit from heat source. Do not use until unit has cooled and the icon disappears. Then turn the output on and try again. Excessive heat will degrade the battery's life span.
	If the Low Temperature icon  on the digital display is blinking: Turn all ports off and remove unit from the cold. Do not use until unit has warmed and the icon disappears. Then turn the output on and try again.
My device is not receiving power.	Ensure the power switch for the output you want to use is on. For example if you want to charge your phone turn USB on, then plug in your phone.
My power station charge level is fluctuating.	If the battery is very low the power station can't read the charge as accurately. As it receives charge the accuracy will increase.
	The digital display may need recalibration by charging to 100%, draining until the unit turns off, then charging back up to 100%.
My power station is not charging.	Ensure that you are using the port labeled INPUT and that all components are firmly connected.
My power station's screen stopped responding.	Use a paperclip to reset your unit by pressing the factory reset button (RESET) on the front control panel. The unit will then shut down. If this does not solve your issue please call our technical support team.

4. BATTERY EDUCATION 101

Device Runtime | AC vs. DC Power

In general it is normal for power losses to occur when energy is transferred from the battery to the ports that power your devices. The AC port requires an inverter, which transforms power from DC to AC. This process creates heat and consumes about 15% of the power it transforms. DC ports are more efficient and only consume 8% of the power that is transformed.

Your device will always last longer when plugged into DC ports if that option is available. For example, a CPAP machine will last almost an extra night when using a DC CPAP converter compared to the standard AC plug.

Heat is the Enemy

If the power station is left in the heat it will impact its health, capacity and longevity. Keep out of hot cars and direct sunlight on warm days. Heat is the #1 reason batteries degrade prematurely.

Determine the Power Consumption of Your Device

- Device with no battery: locate Watts (W) on the product.
If Watts are not available: multiply the Voltage (V) x Amps (A) to arrive at Watts. Eg. $120V \times 0.6A = 72W$
- Device with a battery: locate Watt Hours (Wh).
Or multiply the Voltage (V) x Amp Hours (Ah) to arrive at Watt Hours (Wh). Eg. $12V \times 1.0Ah = 12Wh$ (Note: $1.0Ah = 1,000mAh$)

Calculate Working Time or Recharges for your Device

- **AC Outlets Working Capacity**
 $298Wh \times 0.85$ (15% inverter conversion loss) = 253Wh working capacity. For example, assume your fan consumes 72W. To calculate working time: $253Wh \div 72W = 3.5$ hrs

- **DC and USB Outlets Working Capacity**

$298\text{Wh} \times 0.92$ (8% DC conversion loss) = 274Wh working capacity. For example, assume your smartphone has a 12.5Wh capacity battery. To calculate the number of recharges before capacity is depleted, use the formula: $274\text{Wh} \div 12.5\text{Wh} = 21$ recharges.

5. TECHNICAL SPECIFICATIONS

General		Input	
Weight	9.1 lbs / 4.2 kg	Wall (AC) Charger	19V 3.5A 66W
Dimensions	7.4" x 6.5" x 7.9"	Wall Charge Time	5 hrs (AC)
Operating Temp.	-10°C to 35°C	12V Car Charge Time	5 hrs (DC)
Recharging Temp.	0°C to 40°C	Solar Connector	MC4
Warranty	2 Years	Solar Voltage	12-24V*
Certifications	ETL, CE, ROHS, FCC	Recommended	100-200W
		Solar Panels	
		Solar MPPT Controller Yes	
		Solar Charge Time 5-8 hrs**	
Battery		Output	
Watt Hours	298Wh	Continuous Power	320W
Ah	23.2 Ah @ 12.8 V	Inverter Type	Pure Sine Wave
mAh	93,120 mAh	AC Output Voltage	(2) 110V 3.1A 60 Hz
Cell Type	Lithium-iron Phosphate	USB Type-A Fast Charge	(2) 5V 3A / 9V 2A / 12V 1.5A, 18W Max
Cycle Life	>2000	USB Type-C	(1) 20V 3A, 60W Max with PD
Shelf Life	Charge every 3 months	DC Cigarette Port	(1) 12V 10A
Pass-Through Charging	Yes	DC 5.5mm (5521)	(2) 12V 4A
Battery Management System	Over-current Overload Over-voltage Short circuit Temperature Under-voltage		

*Up to 200W panels. Do NOT exceed 24V or damage may occur 

**Solar charge time will vary based on many factors and conditions such as the weather, time of day, location, solar panel efficiency etc.

6. WARRANTY CLAIM PROCEDURE

This product is distributed by:

Midland Power Inc.

376 Magnetic Drive, Toronto, ON M3J 2C4, Canada

Do not return your product where purchased. If you feel your power station is not meeting your expectations, simply contact our customer support center support@energizerarc.com for technical advice, a warranty claim or general information. Keep a copy of the original receipt, UPC code and serial number with this user guide.

Register Online

www.midlandpowerinc.com



Warranty

Limited warranty period for recreational and residential use:

Two (2) Years Limited

- Year 1 - Parts and Labour
- Year 2 - Parts

This product is warranted to be free of defects in material and workmanship for two years from date of purchase and does not restart at any time under any circumstances. This warranty guarantees that any defective parts will be repaired or replaced at no cost, including diagnosis and replacement parts.

Limitation of remedies and disclaimers: OMNimax disclaims any responsibility for loss of time or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written warranty.



THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE OF AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND OF ANY OTHER WARRANTY WHETHER EXPRESS OR IMPLIED.

Exclusions not covered by this limited warranty: damage to products caused by accident, negligence, misuse, abuse, modification, improper installation, improper storage, water, liquid or gas of any kind, operation in a marine application, operation with improper loads or conditions, modifications contrary to published specifications, accessories not supplied by OMNImax, repairs made during the warranty period without first obtaining a case number from OMNImax, or use for anything other than the intended use as outlined by OMNImax.

Enjoy!

Be sure to check www.homehardware.ca for updates
regarding your product.





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Customer Service

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