

## IMPORTANT:

Before connecting or using your CMN120C cup inverter, please read this user manual.

**Please keep this manual for future reference.**

## Safety Precautions:

Incorrect installation or misuse of your DC to AC inverter may result in injury.

## WARNING:

- **Do Not** open the inverter.
- **Do Not** insert foreign objects into the inverter's AC outlet or vent openings.
- **Do Not** get the inverter wet.
- **Do Not** place inverter near heat sources: heating vents, radiators, and/or any other sources of heat.
- **Do Not** use the inverter in the presence of flammable fumes or gases, such as propane.
- **STOP USING** if you, the inverter, any item being operated, and/or the surface in contact with the inverter becomes wet. Shock, serious injury, or death could result as liquids can conduct electricity.
- To avoid risk of fire, ensure the ventilation openings on the rear and bottom of the unit are not obstructed.
- Keep out of reach of children.

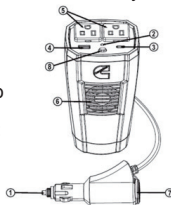
## CAUTION:

- Only use batteries with a normal 12V output. Other batteries may damage the inverter. Never connect to household or RV AC distribution wiring.
- Know the voltage requirements of your appliances. The 115V output 120W continuous power inverter can only properly supply power for those appliances that do not exceed the capacity of the inverter.

## FEATURES

The 120W cup inverter efficiently and reliably operates personal electronics and mobile office equipment, such as tablets, computers, and cellular phones with power consumption under 120W. It's recommended to run the vehicle's engine when using the 120W cup inverter. If the voltage of the battery is low, the inverter will automatically shut down. If you decide to use the inverter while the vehicle is off, we recommend starting the vehicle every hour for 10 minutes to recharge your vehicle's battery. Turn off the item plugged into the inverter prior to starting your vehicle's engine.

This compact inverter is convenient to carry and can be easily operated. It is equipped with the ability to prevent: high/low voltage, overheating, overloading and short circuiting.



1. Lighter Plug – Insert the 12V plug into a 12V socket.
2. LED Indicator – When the inverter has DC input and runs normally, the green LED indicator light turns on. When the inverter has shut down because of fault status, the red LED indicator light will turn on.
3. USB-C® Port – 18W
4. USB Port – 2.4Amp, 5V port
5. 3-Prong AC Outlet – Allows you to plug in AC products with power consumption of 120 Watts or less.
6. Ventilation Openings – The ventilation openings should not be covered at any time while the inverter is operating.
7. Extra DC Socket – Provides an extra socket for other 12V devices (≤5A).
8. 20A Replaceable Fuse – Located at the bottom of the cup inverter to protect unit, it can be easily replaced.
9. Control the backlighting via the red button on the front panel.

1

2

**Note:** A fault is referred to as a low/high voltage, over-heating, and/or overloading of the inverter. When the inverter goes into the fault status, the green LED will turn to red and the inverter will automatically shut down. If this happens, unplug everything from the inverter. The inverter can be reset by unplugging it and plugging it in again. This should be done without anything plugged into the inverter.

## CONNECTING THE INVERTER TO YOUR 12V OUTLET

- 1) Properly connect to the 12V outlet
- 2) Plug in your AC products to the unit
- 3) Turn on the AC product

Through the AC outlets, the inverter is capable of powering most 110/120V products that use 120 Watts or less.

**ATTENTION:** Maximum wattage available depends on power outlet rating.

Amps x Volts = Watts

A 10 Amp outlet can only supply 120 Watts.

A 15 Amp outlet can supply up to 180 Watts.

**ATTENTION:** Your inverter may have come with two different power cords depending on its watt rating.

The 12V power port cord can supply 120 Watts.

The battery clip cord can supply the full inverter rating power.

## TROUBLESHOOTING

PROBLEM	SOLUTION
No output, no indicator.	The unit was damaged.
	Check if the connection is good.
Red LED indicator on.	Check the battery condition. Recharge battery if necessary.
	Reduce loads, use a product with power rating less than 120W.
The inverter will automatically shut off.	Reduce load to have an actual output lower than rated power of inverter.
	Use a product with starting surge power within the inverter's capability.
	Charge the battery.
Inverter runs small loads but not large loads.	Charge the battery.
Inverter got wet.	Disconnect the inverter and wipe immediately with a dry cloth, or permanent damage can occur from liquids.
Measured inverter output is too low.	Inverters "modified sine wave" output requires true RMS voltmeter for accurate measurements.
	Recharge battery.
Battery run time is less than expected.	Use a larger battery to make up for increased power requirement.
	Replace battery.
	Some chargers are not able to fully recharge a battery. Make sure you use a powerful charger.

3

4

**SPECIFICATIONS**

Model	CMN120C
Input	11V-15V DC
Output	115V AC
Output Frequency	58-62Hz
Output Waveform	Modified Sine Wave (MSW)
Continuous Power	120W
Surge Power	240W for one minute
Efficiency	85% Max
No Load Draw	<0.45A
Low Battery Shutdown	10.5±0.3V DC
USB Output Port	2.4A
USB-C® Output Port	3.0A (18W)
AC Output Socket	2 standard North American sockets
Internal Fuse/ Replacement Fuse	1-15A fuse in the cigarette plug (replaceable)
Operating Temperature	32°F-104°F
Power Cable Length	36" with DC socket
Dimensions	3.39" x 2.99" x 6.01"
Net Weight	0.86 lbs.



**OWNER'S GUIDE  
CMN120C**

5

**INFORMATION**

This power inverter is equipped with a standard North American AC power receptacle. Make sure the load requirement of your equipment **does NOT** exceed 120 Watts. The power inverter is engineered to be connected directly to standard electronic equipment in the manner described below. **Do NOT** connect the power inverter to household or RV AC distribution wiring.

6

**One-Year Limited Warranty**  
 For support, product, and warranty information,  
 call 717-967-6101 or email cumminssupport@dasinc.com

Cummins design mark and Cummins® are trademarks and registered trademarks of Cummins Inc. used under license. All other trademarks and registered trademarks are property of their respective owners.  
 ©2022 DAS Companies, Inc. Distributed by DAS Companies, Inc.  
 48 Industrial Drive, Elizabethtown, PA 17022