

# CMW SERIES | INVERTER

CLEAN, COMPACT POWER ON THE GO

## Introduction

The Magnum-Dimensions CMW Series inverter from Sensata Technologies is a cost effective modified sine wave inverter designed for clean, compact power on the go. The CMW will safely run many small appliances and provide you with reliable AC power for troublefree use.



## Features

- Compact and Lightweight – The CMW provides modified sine wave power from a small footprint designed to fit in tight vehicle and marine spaces.
- At-a-Glance Status – The inverter’s status can be determined at a glance with the easy to read LED light.
- Digital Display – The alphanumeric display shows the inverter’s battery voltage, total AC output power, along with additional operation codes.
- USB Port – Power and charge your USB-enabled device with the available USB port.
- GFCI AC Outlet – Plug in two pieces of equipment directly to the CMW and know that the GFCI outlet will quickly stop the flow of electricity should a ground fault occur. The outlet also comes with an LED indicator and test/reset capability.
- Automatic Transfer Switch Option – The CMW3012H automatically switches between shore power and inverter/battery power.
- AC Wiring Access Cover – The CMW3012H provides access to the AC wiring terminals to allow for hardwiring the AC output.



## Options

- Remote Switch – Use the optional CSW-RS remote switch for even easier on/off access away from the inverter. The CSW-RS comes with a 20’ cable.
- Transfer Switch – Use the optional 15 amp CSW-TS15 transfer switch to automatically switch AC load connections between utility/generator power and the AC output of the CMW inverters.

## Model Numbers

- CMW412
- CMW1012
- CMW1512
- CMW3012H (hardwire)

## Available For

- Emergency Medical Services
- Marine Systems
- Military Vehicles
- RV Systems
- Trucks
- Utility Vehicles

## Available Accessories

- Remote Switch (CSW-RS)
- Transfer Switch (CSW-TS15)



Modified Sine Wave



Battery Voltage Options



Continuous Output Options



# SPECIFICATIONS



	CMW412	CMW1012	CMW1512	CMW3012H
<b>INVERTER SPECIFICATIONS - OUTPUT</b>				
<b>Continuous power at nominal DC voltage</b>	400 watts	1000 watts	1500 watts	3000 watts
<b>Peak surge power</b>	800 watts	2000 watts	3000 watts	6000 watts
<b>Continuous current at 12.5 V</b>	38 A	96 A	140 A	280 A
<b>AC output voltage at 12.5 VDC</b>	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%
<b>AC output current</b>	3.3 AAC	8.3 AAC	12.5 AAC	25.0 AAC
<b>AC output voltage range</b>	104 - 127 VAC	104 - 127 VAC	104 - 127 VAC	104 - 127 VAC
<b>AC output frequency</b>	60 Hz ± 0.5 Hz	60 Hz ± 0.5 Hz	60 Hz ± 0.5 Hz	60 Hz ± 0.5 Hz
<b>AC output waveform</b>	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave
<b>USB</b>	NA	5 V, 750 mA	5 V, 750 mA	5 V, 750 mA
<b>INVERTER SPECIFICATIONS - INPUT</b>				
<b>Nominal DC input voltage</b>	12.5 VDC	12.5 VDC	12.5 VDC	12.5 VDC
<b>DC input voltage range</b>	10.5 - 15.5 VDC	10.5 - 15.5 VDC	10.5 - 15.5 VDC	10.5 - 15.5 VDC
<b>No load draw</b>	< 0.3 ADC	< 0.6 ADC	< 0.6 ADC	< 1.5 ADC
<b>High voltage shutdown</b>	15.5 VDC	15.5 VDC	15.5 VDC	15.5 VDC
<b>Low voltage alarm</b>	11.2 VDC	11.2 VDC	11.2 VDC	11.0 VDC SdL / 12.1 VDC SdH
<b>Low voltage shutdown</b>	10.5 VDC	10.5 VDC	10.5 VDC	10.5 VDC SdL / 11.8 VDC SdH
<b>Low voltage recovery</b>	11.8 VDC	11.8 VDC	11.8 VDC	12.0 VDC SdL / 12.6 VDC SdH
<b>GENERAL FEATURES AND CAPABILITIES</b>				
<b>Output power warning</b>	NA	Yes, with warning code	Yes, with warning code	Yes, with warning code
<b>Output power shutdown</b>	Yes	Yes, with shutdown code	Yes, with shutdown code	Yes, with shutdown code
<b>Temperature warning</b>	NA	Yes, with warning code	Yes, with warning code	Yes, with warning code
<b>Temperature shutdown</b>	Yes	Yes, with shutdown code	Yes, with shutdown code	Yes, with shutdown code
<b>Display status indicator</b>	LED: Power, Fault	LED: Power, Fault	LED: Power, Fault	LED: Power, Fault
<b>Digital display</b>	None	Volts in, power out, error codes	Volts in, power out, error codes	Volts in, power out, error codes
<b>AC receptacles</b>	NEMA 5-15	Dual GFCI w/ LED indicator	Dual GFCI w/ LED indicator	NEMA 5-20, Dual GFCI w/ LED indicator
<b>Listings</b>	Conforms to UL458, Certified to CSA STD C22.2 No. 107.1			
<b>Warranty</b>	One year			

ENVIRONMENTAL SPECIFICATIONS				
Operating temperature	-0° C to +40° C (32° F to 104° F)			
PHYSICAL SPECIFICATIONS				
Dimensions (l x w x h)	7.3" x 4.1" x 2.1" (18.5 x 10.4 x 5.3 cm)	12.63" x 6.9" x 3.5" (32.1 x 17.5 x 8.9 cm)	15.0" x 6.9" x 3.5" (38.1 x 17.5 x 8.9 cm)	19.0" x 9.0" x 4.5" (48.3 x 23.0 x 11.5 cm)
Weight	1.6 lb (.7 kg)	5.3 lb (2.4 kg)	6.9 lb (3.1 kg)	13.0 lb (5.9 kg)



## GENERAL NOTES

Testing for specifications at 25° C.  
Specifications subject to change without notice.



## AGENCY APPROVALS & CERTIFICATIONS

- Conforms to UL458, Certified to CSA STD C22.2 No. 107.1

Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, valuation, and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements, and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at [www.sensata.com](http://www.sensata.com) SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY, AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

### Regional head offices:

#### United States of America

Sensata Technologies Attleboro, MA

Phone: 508-236-3800

E-mail: [support@sensata.com](mailto:support@sensata.com)

#### Netherlands

Sensata Technologies Holland B.V. Hengelo

Phone: +31 74 357 8000

E-mail: [support@sensata.com](mailto:support@sensata.com)

#### China

Sensata Technologies China Co., Ltd. Shanghai

Phone: +8621 2306 1500

E-mail: [support@sensata.com](mailto:support@sensata.com)