

# CSW SERIES | INVERTER

## COMPACT SINE WAVE ON THE GO

### Introduction

The CSW Series Inverter is a pure sine wave inverter designed to be powerful, yet simple to operate. The CSW will provide you with reliable AC power for troublefree use.



### Features

- Compact and Lightweight – The CSW provides pure sine wave power from a small footprint designed to fit in tight vehicle and marine spaces. And it is lightweight, so won't weigh you down.
- 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. (\*not available on the CSW412)
- 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 CSW 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 CSW2012-X automatically switches between shore power and inverter/battery power.

### 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 CSW1012 inverter.

### Model Numbers

- CSW412
- CSW1012
- CSW2012
- CSW2012-X

### Available For

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

### Available Accessories

- Remote Switch [CSW-RS]
- Transfer Switch [CSW-TS15]



Pure Sine Wave



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Battery Voltage Options



400-2000 VA

Continuous Output Options



# SPECIFICATIONS



	CSW412	CSW1012	CSW2012	CSW2012-X
<b>INVERTER SPECIFICATIONS - OUTPUT</b>				
<b>Continuous power at nominal DC voltage</b>	400 watts	1000 watts	2000 watts	2000 watts
<b>Peak surge power</b>	800 watts	2000 watts	4000 watts	4000 watts
<b>10 sec surge power</b>	400 - 550 watts	1000 - 1500 watts	2000-3000 watts	2000-3000 watts
<b>1 sec surge power</b>	550-800 watts	1500 - 2000 watts	3000-4000 watts	3000-4000 watts
<b>200 msec surge power</b>	> 800 watts	> 2000 watts	> 4000 watts	> 4000 watts
<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	16.6 AAC	16.6 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>	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
<b>Total harmonic distortion [THD]</b>	< 3%	< 3%	< 3%	< 3%
<b>Transfer Time</b>	NA	NA	NA	< 30 ms
<b>USB</b>	5 V, 750 mA	5 V, 750 mA	5V, 2.1 A	5V, 2.1 A
<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>Input current</b>	38 DCA	94 DCA	187 DCA	193 DCA
<b>No load draw</b>	< 0.8 ADC	< 1.2 ADC	< 1.2 ADC	< 1.5 ADC
<b>Optimum efficiency</b>	> 90%	> 90%	> 90%	> 90%
<b>High voltage shutdown</b>	15.5 VDC	15.5 VDC	15.5 VDC	15.5 VDC
<b>Low voltage alarm</b>	11.0 VDC, audible	11.2 VDC, audible	11.2 VDC, audible	11.2 VDC, audible
<b>Low voltage shutdown</b>	10.5 VDC	10.5 VDC, Recover at 11.8 VDC	10.5 VDC	10.5 VDC
<b>GENERAL FEATURES AND CAPABILITIES</b>				
<b>Transfer relay capability</b>	NA	NA	NA	30 AAC
<b>Display status indictator</b>	LED: Power, Fault	Green, amber, red	LED: Status	LED: Status, Display
<b>Digital display</b>	None	Input voltage/current, output power	Input voltage, output power, warning, and error code	Input voltage, output power, warning, and error code
<b>AC receptacles</b>	NEMA 5-15 [GFCI]	NEMA 5-15 [GFCI]	NEMA 5-20 [GFCI]	NEMA 5-20 [GFCI]
<b>Listings</b>	Conforms to UL458, Certified to CSA C22.2 No. 107.1, meets FCC Class B			
<b>Warranty</b>	One year	One year	One year	One year

PHYSICAL SPECIFICATIONS				
<b>Dimensions (L x W x H)</b>	6.9" x 7.9" x 3.4" [17.5cm x 20.1cm x 8.6cm]	12.63" x 7.0" x 3.5" [32.1cm x 17.8cm x 8.9cm]	16.3" x 9.1" x 4.3" [41.4cm x 23.1cm x 10.9cm]	17" x 9" x 4.5" [43.2cm x 22.9cm x 11.4cm]
<b>Shipping dimensions (L x W x H)</b>	7.9" x 6.9" x 3.5" [20.1cm x 17.5cm x 8.9cm]	15.5" x 8.75" x 5.63" [39.2cm x 22.3cm x 14.3cm]	19" x 11.3" x 6.7" [48.3cm x 28.7cm x 17cm]	19" x 11.3" x 6.7" [48.3cm x 28.7cm x 17cm]
<b>Mounting</b>	Shelf [top or bottom up] or bulkhead			
<b>Weight</b>	3.8 lb [1.7 kg]	6.6 lb [3.0 kg]	11.5 lb [5.2 kg]	13.0 lb [5.9 kg]
<b>Shipping weight</b>	4 lb [1.8 kg]	7.5 lb [3.4 kg]	13 lb [5.9 kg]	14.1 lb [31 kg]
<b>Operating temperature</b>	-0°C to +40°C [32°F to 104°F]			
<b>Nonoperating temperature</b>	-20°C to +60°C [-4°F to 140°F]			
<b>Operating humidity</b>	0 to 90% RH non condensing			
<b>Max operating altitude</b>	9843' [3000 m] above sea level			



## GENERAL NOTES

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



## AGENCY APPROVALS & CERTIFICATIONS

- Conforms to UL458, Certified to CSA C22.2 No. 107.1, meets FCC Class B

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

## CONTACT US

**Americas**  
Everett, WA  
425-353-8833  
[MagnumSales@sensata.com](mailto:MagnumSales@sensata.com)

**International**  
[MagnumInternationalSales@sensata.com](mailto:MagnumInternationalSales@sensata.com)

**Power Conversion**  
[www.SensataPower.com](http://www.SensataPower.com)