

# 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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Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!



DARREN KOEPP - OWNER, MY RV WORKS, INC.

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