



CSW SERIES INVERTER

Compact Sine Wave on the Go



Pure
Sine
Wave



Battery
Voltage
Options



Continuous
Output
Options

The Magnum-Dimensions CSW Series inverter from Sensata Technologies 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.

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.

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)



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.

CSW SERIES SPECIFICATIONS



	CSW412	CSW1012	CSW2012	CSW2012-X
INVERTER SPECIFICATIONS - OUTPUT				
Continuous power at nominal DC voltage	400 watts	1000 watts	2000 watts	2000 watts
Peak surge power	800 watts	2000 watts	4000 watts	4000 watts
10 sec surge power	400 - 550 watts	1000 - 1500 watts	2000-3000 watts	2000-3000 watts
1 sec surge power	550-800 watts	1500 - 2000 watts	3000-4000 watts	3000-4000 watts
200 msec surge power	> 800 watts	> 2000 watts	> 4000 watts	> 4000 watts
AC output voltage at 12.5 VDC	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%
AC output current	3.3 AAC	8.3 AAC	16.6 AAC	16.6 AAC
AC output voltage range	104 - 127 VAC	104 - 127 VAC	104 - 127 VAC	104 - 127 VAC
AC output frequency	60 Hz ± 0.5 Hz	60 Hz ± 0.5 Hz	60 Hz ± 0.5 Hz	60 Hz ± 0.5 Hz
AC output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Total harmonic distortion (THD)	< 3%	< 3%	< 3%	< 3%
Transfer Time	NA	NA	NA	< 30 ms
USB	5 V, 750 mA	5 V, 750 mA	5V, 2.1 A	5V, 2.1 A
INVERTER SPECIFICATIONS - INPUT				
Nominal DC input voltage	12.5 VDC	12.5 VDC	12.5 VDC	12.5 VDC
DC input voltage range	10.5 - 15.5 VDC	10.5 - 15.5 VDC	10.5 - 15.5 VDC	10.5 - 15.5 VDC
Input current	38 DCA	94 DCA	193 DCA	193 DCA
No load draw	< 0.8 ADC	< 1.2 ADC	< 1.2 ADC	< 1.5 ADC
Optimum efficiency	> 90%	> 90%	> 90%	> 90%
High voltage shutdown	15.5 VDC	15.5 VDC	15.5 VDC	15.5 VDC
Low voltage alarm	11.2 VDC, audible	11.2 VDC, audible	11.2 VDC, audible	11.2 VDC, audible
Low voltage shutdown	10.5 VDC	10.5 VDC, Recover at 11.8 VDC	10.5 VDC	10.5 VDC
GENERAL FEATURES AND CAPABILITIES				
Transfer relay capability	NA	NA	NA	30 AAC
Display status indicator	LED: Power, Fault	Green, amber, red	LED: Status	LED: Status, Display
Digital display	None	Input voltage/current, output power	Input voltage, output power, warning, and error code	Input voltage, output power, warning, and error code
AC receptacles	NEMA 5-15	NEMA 5-15 (GFCI)	NEMA 5-20 (GFCI)	NEMA 5-20 (GFCI)
Listings	Conforms to UL458, Certified to CSA C22.2 No. 107.1, meets FCC Class B			
Warranty	One year	One year	One year	One year
ENVIRONMENTAL SPECIFICATIONS				
Operating temperature	-0° C to +40° C (32° F to 104° F)			
Nonoperating temperature	-20° C to +60° C (-4° F to 140° F)			
Operating humidity	0 to 90% RH non condensing			
Max operating altitude	9843' (3000 m) above sea level			
PHYSICAL SPECIFICATIONS				
Dimensions (l x w x h)	6.9" x 7.9" x 2.3" (17.5 cm x 20.1 cm x 5.8 cm)	12.63" x 7.0" x 3.5" (32.1 cm x 17.8 cm x 8.9 cm)	16.3" x 9.1" x 4.3" (41.4 cm x 23.1 cm x 10.9 cm)	17" x 9" x 4.5" (43.2 cm x 22.9 cm x 11.4 cm)
Shipping dimensions (l x w x h)	7.9" x 6.9" x 3.5" (20.1 cm x 17.5 cm x 8.9 cm)	15.5" x 8.75" x 5.63" (39.2 cm x 22.3 cm x 14.3 cm)	19" x 11.3" x 6.7" (48.3 cm x 28.7 cm x 17 cm)	19" x 11.3" x 6.7" (48.3 cm x 28.7 cm x 17 cm)
Mounting	Shelf (top or bottom up) or bulkhead (DC terminals MUST be facing up)			
Weight	3.8 lb (1.7 kg)	6.6 lb (3.0 kg)	11.5 lb (5.2 kg)	13.0 lb (5.9 kg)
Shipping weight	4 lb (1.8 kg)	7.5 lb (3.4 kg)	13 lb (5.9 kg)	14.1 lb (31 kg)



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