

HS SERIES | INVERTER/CHARGER

PURE SINE WAVE INVERTER/CHARGER IDEAL FOR RV'S

Introduction

The HS Series inverter/charger is a 2000 watt inverter paired with an 80 amp charger designed to provide pure sine wave AC power and charge batteries for use when there is no shore power.



Features

- Pure sine wave – Power sensitive electronics, like smart devices, without worry.
- LED status indicator – Built-in LED status indicators provide at-a-glance status updates.
- RV-C connector – Built-in RV-C connector and protocol allows the HS Series to multiplex directly with the RV's network.
- GFCI outlet – HS2012-G models include a built-in two-plug GFCI outlet with test and reset capability.
- Multi-stage charger – Ensures batteries are charged to battery manufacturers recommendations while helping to prolong battery life.
- Variable battery settings – Compatible with gel, flooded, AGM, and lithium iron phosphate batteries.

Model Numbers

- HS2012 (Inverter/charger only)
- HS2012-G (Remote display, battery temperature sensor and 40ft remote cable come standard with this model)

Available For

- Marine Systems
- RV Systems

Available Accessories

- HS-RC Digital remote panel
- ME-BTS-15 Battery temperature sensor with 15ft cable
- Remote cables – 25 ft, 40 ft and 60 ft



Pure Sine Wave



12 Battery Voltage Options



2000 VA Continuous Output Options



SPECIFICATIONS

HS2012 / HS2012-G	
INVERTER SPECIFICATIONS	
Input battery voltage range	10.5 - 16.5 VDC
AC output voltage and accuracy	120 VAC \pm 2 VAC
AC output current	16.7 AAC
Output frequency and accuracy	60 Hz \pm 0.1 Hz
Total harmonic distortion (THD)	< 3%
Output Power (continuous)	2000W
Surge power (5 seconds)	2400W
Maximum continuous input current	229 ADC
Inverter efficiency (peak)	>90%
AC relay transfer time	< 30 ms
Power consumption - inverting (no load)	< 3.0 ADC
Output waveform	Pure sine wave
CHARGER SPECIFICATIONS	
Continuous output	80 ADC
Charger efficiency	> 80%
Power factor correction	> 95%
GENERAL FEATURES AND CAPABILITIES	
Transfer relay capability	30A (resistive load)
Charging capability	Bulk, Absorption, Float, Equalize
Battery types	Gel, Flooded, AGM, LFP, Program (custom), Power supply mode
Battery temperature compensation	Standard with available temp sensor connected
AC output receptacle	NEMA 5-20, Dual GFCI with LED on HS2012-G
LED status indicators	Power, AC Output and Status
Digital display port	RJ12
Warranty	One year
PHYSICAL SPECIFICATIONS	
Dimensions (l x w x h)	15.4" x 11.9" x 4.2" 39.1 cm x 30.2 cm x 10.6 cm
Unit weight	17.6 lbs 8.0 kg
Operating temperature	0°C to +40°C [32°F to 104°F]
Nonoperating temperature	-20°C to +60°C [-4°F - 140°F]



GENERAL NOTES

Testing for specifications: DC voltage at nominal (12.5V) and temperature at 25° C.

1. HS2012-G models only
2. Requires HS-RC Digital remote panel to adjust
3. Surge ratings are based on resistive load (output voltage may drop).
4. Damage can occur if input voltage exceeds 16.5 VDC.

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, evaluation 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 OR 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 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.

CONTACT US

651-653-7000
800-553-6418
InverterInfo@sensata.com

Power Conversion
www.magnum-dimensions.com