ME SERIES | INVERTER/CHARGER

Introduction

The ME Series Inverter / Charger from Sensata Technologies is a modified sine wave inverter designed specifically for rugged mobile applications. The ME Series is powerful, easy-to-use, and best of all, cost effective. Safe and reliable: The ME Series is ETL Listed to the stringent requirements of UL/cUL 458 and CSA C22.2 #107.1-01, ensuring that the inverter is safe and reliable. Easy-to-install: Install the ME Series in four easy steps: simply connect the inverter's output to your distribution circuits or electrical panel, connect your shore power cable (AC) to the inverter's easy-to-reach terminal block, connect the batteries, and switch on the power.



Features

• Power Factor Corrected (PFC) Charger – Our PFC charger is built into all of our inverter / chargers. It uses less energy from a generator than a standard charger - using 25-30% less AC current than standard chargers.

Sensata

Technologies

- Choices The ME Series comes in three power models and optional built-in branch rated AC output breakers, allowing you to choose the model that is right for you.
- Versatile mounting Mount the ME Series on a shelf, bulkhead, or even upside down.
- Lightweight The lightweight aluminum base and cover also provides noise reduction and corrosion resistance.
- Multiple ports The ME Series provides multiple ports, including an RS485 communication port for network expansion, and a remote port.
- Accessible design The extra large AC access cover with terminal screw block and 360° DC connection terminals with covers make this inverter more accessible when it needs to be.
- Convenient switches The ME Series comes with an on/off inverter-mounted switch with an easy-to-read LED indicator.
- Expanded transfer relay 60 Amp transfer service is available on all models, and can be wired in three ways, including single in / single out, single in / dual out, or dual in / dual out.
- Buy with ease The ME Series is backed by a three-year (36-month) limited warranty.

Model Numbers

- ME2012
- ME2012-20B
- ME2512
- ME3112

Available For

- Marine Systems
- RV Systems
- DC Load Disconnect

• Auto Generator Start

• Battery Monitor Kit

Available Accessories

Fuse Blocks

Conduit Box

- Ignitions Switch Lockout
- MagWeb

- Remote ME-ARC
- Remote ME-RC
- Remote MM-RC
- Remote Switch Adapter
- Smart Battery Combiner
- New features available using the ME-ARC (with v5.4 or higher firmware).

Modified Sine Wave

Battery Voltage Options



Continuous Output Options

Copyright © 2019 Sensata Technologies, Inc.



	ME2012	ME2512	ME3112	
INVERTER SPECIFICATIONS				
Input battery voltage range	9 - 16 VDC	9 - 16 VDC	9 - 16 VDC	
Nominal AC output voltage	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%	
Output frequency and accuracy	60 Hz ± 0.1 Hz	60 Hz ± 0.1 Hz	60 Hz ± 0.1 Hz	
1 msec surge current (amps AC)	60	100	120	
100 msec surge current (amps AC)	37	45	50	
5 sec surge power (real watts)	3700	5000	6000	
30 sec surge power (real watts)	3450	4500	4800	
5 min surge power (real watts)	3100	3500	3950	
30 min surge power (real watts)	2400	2900	3500	
Continuous power output at 25° C	2000 VA	2500 VA	3100 VA	
Maximum continuous input current	266 ADC	333 ADC	413 ADC	
Inverter efficiency (peak)	95%	91%	90%	
Transfer time	16 msecs	16 msecs	16 msecs	
Search mode (typical)	5 watts	5 watts	5 watts	
No load (120 VAC output, typical)	20 watts	23 watts	25 watts	
Waveform	Modified Sine Wave	Modified Sine Wave	Modified Sine Wave	
CHARGER SPECIFICATIONS				
Continuous output at 25° C	100 ADC	120 ADC	160 ADC	
Charger efficiency	85%	85%	85%	
Power factor	> .95	> .95	> .95	
Input current at rated output (AC amps)	15	18	22	
GENERAL FEATURES AND CAPABILITIES				
Transfer relay capability	2 legs at 30 A for 120 V/30 A or 240 V/60 A service			
Five stage charging capability	Bulk, Absorb, Float, Equalize (requires remote), and Battery Saver™			
Battery temperature compensation	Yes, 15 ft Battery Temp Sensor standard			
Internal cooling	0 to 120 cfm variable speed drive using dual 92mm brushless DC fans			
Overcurrent protection	Yes, with two overlapping circuits			
Overtemperature protection	Yes on transformer, MOSFETS, and battery			
Corrosion protection	Yes, PCB's conformal coated, powder coated chassis/top, and stainless steel fasteners			
Dual AC branch rated output breakers	Optional on the ME2012 - AC breakers in 20 amp ratings			
Listings	ETL Listed to UL/cUL 458, CSA C22.2 #107.1-01			
Warranty	Three years			

ENVIRONMENTAL SPECIFICATIONS					
Temperature (Operating/Non-operating)	-20° C to +60° C (-4° F to 140° F) to -40° C to +70° C (-40° F to 158° F)				
Operating humidity	0 to 95% RH non-condensing				
PHYSICAL SPECIFICATIONS					
Dimensions (I x w x h)	13.75" x 12.65" x 8.0" (34.9 cm x 32.1 cm x 20.3 cm)				
Mounting	Shelf or wall (vents not allowed to face downward unless ME-CB or MMP/MP is installed				
Weight	37 lb (16.8 kg)	41 lb (18.6 kg)	46 lb (20.9 kg)		
Shipping weight	46 lb (20.9 kg)	41 lb (18.6 kg)	56 lb (25.5 kg)		
Max operating altitude	15,000' (4570 m)				



GENERAL NOTES

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

0

AGENCY APPROVALS & CERTIFICATIONS

• ETL Listed to UL/cUL 458, CSA C22.2 #107.1-01

CONTACT US

651-653-7000

800-553-6418

Power Conversion

InverterInfo@sensata.com

www.magnum-dimensions.com

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.

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.