

# 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.
- 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-U
- ME2012-F
- ME2012-20B-U
- ME2512-U
- ME3112-U

## Available For

- Marine Systems
- RV Systems

## Available Accessories

- Auto Generator Start
- Battery Monitor Kit
- Conduit Box
- DC Load Disconnect
- Fuse Blocks
- 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



# SPECIFICATIONS

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



## AGENCY APPROVALS & CERTIFICATIONS

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

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