

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
- ME2012-20B
- ME2512
- ME3112

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 |
|--|---|--------------------|--------------------|
| 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 (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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