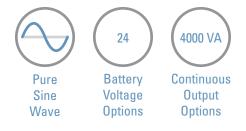




# THE MSH-RE SERIES INVERTER / CHARGER



#### **Model Number**

MSH4024RE

#### **Available For**

Renewable Energy Systems
Off-grid Power
Back-up Power

#### **Available Accessories**

- Auto Generator Start -ME-AGS-N
- Battery Monitor Kit
- Conduit Box
- DC Load Disconnect
- Fuse Blocks
- MagWeb
- MMP Panels
- Remote ME-ARC\*
- Remote ME-RC\*
- Remote Switch Adapter
- Smart Battery Combiner

#### **New Warranty**

 Three-year warranty standard.
Five-year warranty if installed on an MMP panel.

\* New status displays require ME-RC v2.7 or ME-ARC v3.0 or higher. The MSH-RE Series Inverter / Charger from Sensata Technologies – a pure sine wave inverter that combines the tried and tested engineering of Sensata's MS line with hybrid technology to make it an optimal choice for your renewable and backup power needs.

**Hybrid technology:** Most inverters only use one source of energy to power loads, either from incoming AC power – utility or AC generator – or from the batteries. The MSH-RE Series combines the energy from both sources to power loads. This allows the inverter to recharge the batteries when there is surplus power or deliver more power to the loads if they require more than the AC input can supply by itself.

**Load support:** Load support parallels the inverter output with incoming AC sources allowing it to run larger loads from smaller generators.

### **FEATURES**:

#### Pure sine wave:

Power your T.V.s, stereos, plasma screens, and other sensitive electronics without worry. The pure sine wave inverter and power factor corrected charger provide clean, reliable inverter power with low total harmonic distortion (THD) of less than 5%.

**Easy-to-install:** Install the MSH-RE Series in four easy steps: simply connect the inverter's output to your distribution circuits or electrical panel, connect your utility power cable to the inverter's easy-toreach terminal block, connect the batteries, and switch on the power.

**Dual AC inputs**: The MSH-RE Series comes with two 60 amp AC inputs – a grid input at 60A and a generator input at 60A.

#### 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.

#### Interchangeable:

The MSH-RE is interchangeable with the Magnum MS Series and uses the same accessories as the MS Series.

Lightweight: The lightweight aluminum base and cover also provides noise reduction and corrosion resistance.

#### Multiple ports:

The MSH-RE Series provides multiple ports, including an RS485 communication port for network expansion, and a remote port.

#### **Convenient switches:**

The MSH-RE Series comes with an on/off inverter-mounted switch with an easy-to-read LED indicator.

**Buy with ease:** The MSH-RE Series is backed by a three-year (36-month) limited warranty, and a five-year limited warranty when installed on an MMP system.

## **MSH-RE SERIES SPECIFICATIONS**

INVERTES SPECIFICATIONS     Input battery voltage range   18 - 34 VDC     Nominal AC output voltage   120 VAC ± 3%     Output frequency and accuracy   60 Hz ± 0.05 Hz     Total Harmonic Distortion (THD)   <5%     1 mise surge current (amps AC)   120     100 msec surge current (amps AC)   82     5 sec surge power (real watts)   5800     30 use surge power (real watts)   5400     5 min surge power (real watts)   4900     30 min surge power (real watts)   4500     Continuous power output at 25° C   4000 VA     Maximum continuous input current   267 ADC     Inverter efficiency (peak)   93.7%     Transfer time   < 16 msecs     Search mode (typical)   < 7 watts     No load (120 VAC output, typical)   25 watts     Waveform   Pure Sine Wave     Charger efficiency   85%     Power factor   >.95     Input current at rated
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Overcurrent protection Yes, with two overlapping circuits
to, mar no overapping on outo
Overtemperature protection Yes on transformer, MOSFETS, and battery
Corrostion protection Yes, PCB's conformal coated, powder coated chassis/top, and stainless steel fasteners
Dual AC branch rated output breakers No
Listings ETL listed to UL/cUL 1741, CSA C22.2 No. 107.1-01
Warranty Three years parts and labor
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)
Shipping dimensions (I x w x h)     19" x 17" x 13" (48.3 cm x 43.2 cm x 33 cm)
Mounting Shelf or wall (vents not allowed to face downward unless ME-CB or MMP is installed)
Weight 58 lb (26.3 kg)
Shipping weight 60 lb (27.2 kg)
Max operating altitude 15,000' (4570 m)



#### OFFICES

2211 West Casino Road Everett, Washington 98204 USA 425-353-8833

4467 White Bear Pkwy

St. Paul, MN 55110 USA 800-553-6418

000-000-041

www.SensataPower.com

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

com February 2017 Rev B Part #64-0498