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Model Numbers

MSH3012RV

Available For

RV Systems

Available Accessories

- Auto Generator Start ME-AGS-N
- Battery Monitor Kit
- MagWeb
- Remote ME-ARC*
- Remote ME-RC*
- Smart Battery Combiner

* New status displays require ME-RC v2.7 or ME-ARC v3.0 or higher. Designed specifically for use in RVs, the MSH-RV Series Inverter / Charger from Sensata Technologies is a pure sine wave inverter designed with true hybrid technology allowing it to run larger loads from smaller generators.

Hybrid technology: Most inverters only use one source of energy to power loads, either from incoming AC power – shore or AC generator – or from the batteries. The MSH-RV 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.

Built-in RV-C connector: The built in RV-C connector and protocol allows the MSH-RV Series to multiplex directly with the RV's network bus/backbone. Program your inverter/ charger settings using the RV's system monitoring display.

FEATURES

Load support:

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

Power factor corrected charging:

Use more power that you produce with the automatic PFC multi-stage battery charger.

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%.

Pass through capabilities:

Larger 50 amp AC capability

Lightweight, small footprint:

The lightweight aluminum base and cover also provides noise reduction and corrosion resistance, while the compact design of the MSH-RV is perfect for RV spaces.

Multiple ports:

The MSH-RV Series provides multiple ports, including an RS485 communication port for network expansion, an RV-C connector, 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 MSH-RV Series comes with an on /off inverter-mounted switch with an easy-to-read LED indicator.

Buy with ease:

The MSH-RV Series is backed by a three-year (36-month) limited warranty.

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MSH-RV SERIES SPECIFICATIONS

| VERTER SPECIFICATIONS | MSH3012RV |
|--|--|
| Input battery voltage operating range | 9 to 17 VDC |
| nput battery voltage range for full output power | 10.4 to 17.0 VDC |
| AC output voltage accuracy (at 12.6 VDC) | 120 VAC ±3% (≤ continuous power) |
| Output frequency and accuracy | 60 Hz ± 0.05 Hz |
| Total Harmonic Distortion (THD) | < 5% |
| Continuous power output (at 25°C) | 3000 VA |
| Continuous AC output current | 25 A |
| 1 msec surge current (amps AC) | 85 |
| 100 msec surge current (amps AC) | 45 |
| 5 sec surge power (real watts) | 3500 |
| 30 sec surge power (real watts) | 3500 |
| 5 min surge power (real watts) | 3400 |
| 30 min surge power (real watts) | 3100 |
| Maximum continuous input current | 400 ADC |
| Inverter efficiency (peak) | 88% |
| HBCO/HBCI (High Battery Cut Out/In) | 16.8 VDC /16.5 VDC |
| LBCO/LBCI (Low Battery Cut Out/In) | 9.0 VDC (adj) / 12.5 VDC |
| Inverter stacking (series or parallel) | No |
| AC relay transfer time (minimum) | <16 msec |
| Power consumption – searching | 10 watts |
| Power consumption – inverting (no load) | 36 watts |
| Output waveform | Pure Sine Wave |
| CHARGER SPECIFICATIONS | |
| Continuous output at 25° C | 125 ADC |
| Input current for continuous rated output | 18 AAC |
| Maximum current during load support | 224 ADC from battery |
| Charger efficiency | 86% |
| AC input frequency range | 50 to 70 Hz |
| AC input voltage range | 60 to 140 VAC (120 VAC nominal) |
| Power factor | > 0.95 |
| SENERAL FEATURES AND CAPABILITIES | |
| Transfer relay capability | 50 AAC maximum each input (2 inputs) |
| Five stage charging capability | Bulk, Absorb, Float, Equalize (requires remote), and Battery Saver™ |
| Battery temperature compensation | Standard with available temp sensor connected (battery temp 0 – 50 °C) |
| Internal cooling | 0 to 120 cfm variable speed drive using dual 92mm brushless DC fans |
| Internal protection | Over-current protection and multipoint over-temperature protection |
| RVIA "RV-C" (CAN) compliant | Yes, with electrically isolated CAN port - supports up to 2 inverters per network |
| Corrosion protection | PCB's conformal coated, powder coated chassis/top, and stainless steel fasteners |
| Safety listings | ETL listed to UL/cUL 458, CSA C22.2 No. 107.1-01 |
| Warranty | Three years parts and labor |
| Branch-rated output circuit breakers | No |
| NVIRONMENTAL 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 MPX-CB is installed) |
| Weight | Unit: 55 lb (24.9 kg) / Shipping: 63 lb (28.6 kg) |
| Max operating altitude | 15,000 ft (4570 m) |
| ••••• | OFFICES 2211 West Casino Road Everett, Washington 98204 USA |
| Sensata | 425-353-8833 |
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Testing for specifications at 25° C. Specifications subject to change without notice.

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Technologies

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