



The ME Series Inverter / Charger



The ME Series Inverter / Charger from Magnum Energy 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.

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).

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.



ME Series 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 \pm 5%	120 VAC \pm 5%	120 VAC \pm 5%
Output frequency and accuracy	60 Hz \pm 0.1 Hz	60 Hz \pm 0.1 Hz	60 Hz \pm 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 45° 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 msec	16 msec	16 msec
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 45° 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		
Conformal coating on PCB's for corrosion protection	Yes		
Powder coated chassis & top for corrosion protection	Yes		
Stainless steel fasteners for corrosion protection	Yes		
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			
Operating temperature	-20° C to +60° C (-4° F to 140° F)		
Nonoperating temperature	-40° C to +70° C (-40° F to 158° F)		
Operating humidity	0 to 95% RH non condensing		
Physical Specifications			
Dimensions (h x w x d)	13.75" x 12.65" x 8.0" (34.9 cm x 32.1 cm x 20.3 cm)		
Mounting	Shelf (top or bottom up) or bulkhead (vents up)		
Weight	37 lb (16.8 kg)	41 lb (18.6 kg)	46 lb (20.9 kg)
Shipping Weight	42 lb (19 kg)	46 lb (20.9 kg)	51 lb (23 kg)
Max operating altitude	15,000' (4570 m)		

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

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