



## The ME Series Inverter/Charger For Mobile Applications



**The ME Series Inverter/Charger is powerful, easy-to-use, and cost effective.**



**The Powerful Difference**

### Reliable Mobile Power from Magnum Energy

Introducing the ME Series Inverter/Charger from Magnum Energy – a new generation inverter designed specifically for rugged recreational vehicle use. 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, 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

**You asked and Magnum listened.**

The ME Series Inverter/Charger is loaded with features:

**Efficient:** The **sine wave charger** efficiently charges your batteries even at low AC voltage, while the modified sine wave inverter keeps the cost down. Additionally, the battery temperature sensor works with the charger for optimum battery charging.

**Choices:** The ME Series comes in three power models, allowing you to choose the model that is right for you.

**Upgradeable memory:** The inverter is designed with Flash programming for easy memory upgrades.

**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:** 50 Amp transfer service is available on all models.

**Buy with ease:** The ME Series is backed by a three-year (36-month) limited warranty.

### Accessories and Options

**Remote control:** For convenient finger-tip operation, including the new one-knob™ programming.

**AGS module:** Automatically starts and stops your generator based on temperature or battery voltage.

**Coming soon:**

**Smart shunt:** Provides precise voltage to DC current.

**Stacking cable kit:** Designed to accommodate dual inverter configurations.



# The ME Series Inverter/Charger

## Specifications

	ME2012			ME2512			ME3112		
	Minimum	Typical	Maximum	Minimum	Typical	Maximum	Minimum	Typical	Maximum
<b>Inverter Specifications</b>									
<b>Input battery voltage</b>	9.5 VDC	12.6 VDC	15.5 VDC	9.5 VDC	12.6 VDC	15.5 VDC	9.5 VDC	12.6 VDC	15.5 VDC
<b>Nominal AC output voltage</b>	115 VAC	120 VAC	125 VAC	115 VAC	120 VAC	125 VAC	115 VAC	120 VAC	125 VAC
<b>Output frequency and accuracy</b>	60 Hz ± 0.04%			60 Hz ± 0.04%			60 Hz ± 0.04%		
<b>1 msec surge current (amps AC)</b>	60			100			100		
<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 45° C</b>	2000 VA			2500 VA			3100 VA		
<b>Rated input battery current</b>	191.0 ADC			239.1 ADC			296.5 ADC		
<b>Inverter efficiency</b>	89%		95%	88%		91%	87%		90%
<b>Transfer time</b>	16 msec			16 msec			16 msec		
<b>No load current (search mode)</b>	0.2 ADC	0.87 ADC	1 ADC	0.2 ADC	0.95 ADC	1.1 ADC	0.2 ADC	0.97 ADC	1.1 ADC

<b>Charger Specifications</b>									
<b>Continuous output at 45° C</b>	100 ADC			120 ADC			160 ADC		
<b>Charger efficiency</b>	82%		85%	82%		85%	82%		85%
<b>Power factor</b>	0.95		0.98	0.95		0.98	0.95		0.98
<b>Input current at rated output</b>	15 ADC			18 ADC			21 ADC		

<b>General Features and Capabilities</b>									
<b>Transfer relay capability</b>	2 legs at 30 A for 120 V/30 A or 240 V/50 A service								
<b>Five stage charging capability</b>	Bulk, Absorb, Float, Equalize, and Battery Saver™								
<b>Battery temperature compensation</b>	With available temp sensor (battery temp 0 – 50° C)								
<b>Remote inverter on/off switch</b>	With available pigtail to connect to dry contact								
<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>Conformal coating on PCB's for corrosion protection</b>	Yes								
<b>Powder coated chassis &amp; top for corrosion protection</b>	Yes								
<b>Stainless steel fasteners for corrosion protection</b>	Yes								
<b>Dual branch rated output breakers</b>	Optional on the ME2012 - breakers in 15 or 20 amp ratings								
<b>Series stacking interface 120/240 V</b>	Coming soon								

<b>Environmental Specifications</b>									
<b>Operating temperature</b>	-20° C to +60° C (-4° F to 140° F)								
<b>Nonoperating temperature</b>	-40° C to +70° C (-40° F to 158° F)								
<b>Operating humidity</b>	0 to 95% RH non condensing								

<b>Physical Specifications</b>									
<b>Dimensions (h x w x d)</b>	13.75" x 12.65" x 8.0" (34.9 cm x 32.1 cm x 20.3 cm)								
<b>Mounting</b>	Shelf (top or bottom up) or bulkhead (vents up)								
<b>Weight</b>	38 lb (17 kg)			42 lb (19 kg)			45 lb (20 kg)		
<b>Max operating altitude</b>	15,000' (4570 m)								

<b>Optional Digital LCD Remote Features</b>									
<b>Adjustable search mode</b>	5, 10, 15, 20, 30, and 50 watts								
<b>Dedicated inverter ON/OFF switch</b>	Yes								
<b>Dedicated charger ON/DEFEAT switch</b>	Yes								
<b>Low battery cutout settings</b>	9, 10, and 11 VDC for 1 minute								
<b>Battery voltage meter/accuracy</b>	0.1V resolution ± 0.2V								
<b>Battery current meter/accuracy</b>	1 amp resolution ±10%								
<b>Selectable battery bank sizes</b>	200, 400, 600, 800, and 1000 amp-hours								
<b>Selectable battery charge profile</b>	Flooded, AGM, and Gel type chemistries								
<b>Adjustable charge rate</b>	10-100% in 10% increments								
<b>Adjustable VAC dropout</b>	60, 80, and 100 VAC								
<b>Adjustable LCD contrast</b>	Yes								
<b>One-knob™ programming for ease of use</b>	Yes								

<b>Optional Automatic Generator Start Features</b>									
<b>Selectable cabin temperature for genstart</b>	Yes								
<b>Selectable battery voltage for genstart</b>	Yes								

**Authorized Magnum Dealer**

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