

# The MM-AE Series Inverter/Charger



## **MODEL NUMBERS:**

- MM612AE
- MM1512AE
- MM1524AE

#### **AVAILABLE FOR:**

 Renewable Energy Systems Off-grid Power
Back-up Power

### AVAILABLE ACCESSORIES:

- Battery Monitor Kit
- Fuse Blocks
- MagWeb
- Remote ME-ARC
- Remote ME-RC





## **Cost Effective Inverter/Chargers** from Magnum Energy

The MM-AE Series Inverter/Charger from Magnum Energy is a modified sine wave inverter providing a cost effective solution for those with smaller power needs in renewable energy applications. Versatile, easyto-use, and lightweight, the MM-AE Series provides a reliable base for your energy system.

**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.

**Attractive styling:** The modern, hourglass case, paired with the die cast aluminum base combines form with function, creating an attractive unit that uses its base as a heat sink for superior high temperature operation.

## **Features**

**You asked and Magnum listened.** The MM-AE Series Inverter/Charger is loaded with features:

**Standard transfer relay:** The standard 20 amp transfer relay will pass AC power through the inverter when using grid or generator power.

**Versatile mounting:** Mount the MM-AE Series on a shelf, wall, or even upside down.

**Fan cooled:** The MM-AE Series is fan cooled, enabling the unit to work well in confined spaces. If the inverter does exceed its temperature limits, it will automatically shut down and then restart when it cools down.

**Low battery protection:** If your battery voltage goes below the cut-out setting, the MM-AE Series will automatically shut down, saving your batteries.

**High battery protection:** If your battery voltage reaches over the cut-out setting, the MM-AE Series will shut down.

## **Current overload protection:**

The MM-AE Series will automatically shut down if its output wattage is exceeded or it detects a short in the wiring, saving the unit from costly damage.

**Convenient switches:** The MM-AE Series comes with an on/off front-mounted switch and an easy-to-read LED indicator.

#### **Circuit breaker protection:**

Every model comes with built in input and output circuit breakers for ease of installation.

#### Battery temp sensor:

The standard battery temp sensor monitors temperatures from 0 -  $50^{\circ}$  C.

#### Buy with ease:

The MM-AE Series is backed by a two-year (24-month) parts and labor warranty.



# **MM-AE Series Inverter/Charger Specifications**

MM612AE       9 to 16 VDC       120 VAC ± 5%       60 Hz ± 0.1 Hz       27       11       1100       1050       1000       950       675       600 VA	MM1512AE       9 to 16 VDC       120 VAC ± 5%       60 Hz ± 0.1 Hz       42       23       2100       1900       1750       1550	MM1524AE 18 to 32 VDC 120 VAC ± 5% 60 Hz ± 0.1 Hz 45 24 2650 2575 2500
120 VAC ± 5% 60 Hz ± 0.1 Hz 27 11 1100 1050 1000 950 675	120 VAC ± 5% 60 Hz ± 0.1 Hz 42 23 2100 1900 1750	120 VAC ± 5% 60 Hz ± 0.1 Hz 45 24 2650 2575
60 Hz ± 0.1 Hz 27 11 1100 1050 1000 950 675	60 Hz ± 0.1 Hz 42 23 2100 1900 1750	60 Hz ± 0.1 Hz 45 24 2650 2575
27 11 1100 1050 1000 950 675	42 23 2100 1900 1750	45 24 2650 2575
11 1100 1050 1000 950 675	23 2100 1900 1750	24 2650 2575
1100 1050 1000 950 675	2100 1900 1750	2650 2575
1050 1000 950 675	1900 1750	2575
1000 950 675	1750	
950 675	1750	2500
675		
		2350
	1525	1900
	1500 VA	1500 VA
5 AAC	10 AAC	13 AAC
80 ADC	200 ADC	100 ADC
		91%
		16 msecs
		4 watts
		9 watts
		Modified Sine Wav
		woulled Sille Wav
20 4 D C	70 4 D C	
		35 ADC
		88%
		> 0.95
4	9	9
		1)
0 to 59 cfm variable spee	d	
Yes on transformer and N	IOSFETS	
Yes, front mounted and e	asily accessible	
10 or 20 VDC, adjustable of	on most models with the N	IE-RC remote
Hardwire	Hardwire	Hardwire
7 A	15 A	15 A
8 AAC	20 AAC	20 AAC
NA		
Two years		
-20° C to +60° C (-4° F to 1	140° F)	
-40° C to +70° C (-40° F to 158° F)		
16.6" x 8.4" x 4.7" (42 cm	x 21 cm x 12 cm)	
· · ·	•	22 lb (10 kg)
		24 lb (10.9 kg)
	24 ID ( 10.3 Kg)	24 ID ( 10.3 Kg)
	aluminum hottom	
	Yes, 15 ft Battery Temp Se 0 to 59 cfm variable spee Yes, with two overlapping Yes on transformer and N Yes, front mounted and e 10 or 20 VDC, adjustable of Hardwire 7 A 8 AAC NA Two years -20° C to +60° C (-4° F to 1 -40° C to +70° C (-40° F to 1 -40° C to +70° C (	16 msecs16 msecs3 watts6 watts10 watts18 wattsModified Sine WaveModified Sine Wave30 ADC70 ADC $85\%$ $88\%$ > 0.95> 0.954920 AAC (input current for charging and pass through Yes, 15 ft Battery Temp Sensor standard 0 to 59 cfm variable speedYes, with two overlapping circuits Yes on transformer and MOSFETSYes, front mounted and easily accessible 10 or 20 VDC, adjustable on most models with the M HardwireTA15 A 8 AAC8 AAC20 AACNA Two years-20° C to +60° C (-4° F to 140° F) -40° C to +70° C (-40° F to 158° F) 0 to 95% RH non condensing16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm) Shelf (top or bottom up) or wall (vents up) 16 lb (7.3 kg) 22 lb (10 kg) 18 lb (8.2 kg) 24 lb (10.9 kg)e:425-353-8833

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**The Powerful Difference** 

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Testing for specifications at 25° C Specifications subject to change without notice. January 2012, Rev D Part #64-0450

