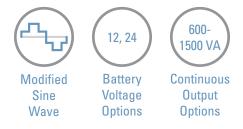




THE MM-AE SERIES INVERTER/CHARGER Cost Effective Inverter/Chargers



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

The Magnum Energy MM-AE Series Inverter/Charger is a modified sine wave inverter providing a cost effective solution for those with smaller power needs in renewable energy applications. Versatile, easy-to- 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.

Safe and reliable: The MMS Series is ETL Listed to the stringent requirements of UL/ cUL 458 and CSA C22.2 #107.1-01 for mobile use.

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

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 auto-matically 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-toread 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° C.

Buy with ease:

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

MM-AE SERIES INVERTER/CHARGER SPECIFICATIONS

	MM612AE	MM1512AE	MM1524AE	
INVERTER SPECIFICATIONS		0.4.401/00		
Input battery voltage range	9 to 16 VDC	9 to 16 VDC	18 to 32 VDC	
Nominal AC output voltage	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%	
Output frequency and accuracy	60 Hz ± 0.1 Hz	60 Hz ± 0.1 Hz	60 Hz ± 0.1 Hz	
1 msec surge current (amps AC)	27	42	45	
100 msec surge current (amps AC)	11	23	24	
5 sec surge power (real watts)	1100	2100	2650	
30 sec surge power (real watts)	1000	1750	2500	
5 min surge power (real watts)	950	1550	2350	
30 min surge power (real watts)	675	1525	1900	
Continuous power output at 25° C (with 1.0 PF)	600 VA	1500 VA	1500VA	
Continuous current output	5 ACC	10 ACC	13 ACC	
Maximum input battery current	80 ADC	200 ADC	100 ADC	
Inverter efficiency (peak)	95%	95%	91%	
Transfer time	16 msecs	16 msecs	16 msecs	
Search mode (typical)	3 watts	6 watts	4 watts	
No load (120 VAC output, typical)	10 watts	18 watts	9 watts	
Waveform	Modified Sine Wave	Modified Sine Wave	Modified Sine Wave	
CHARGER SPECIFICATIONS				
Continuous output at 25° C	30 ADC	70 ADC	35 ADC	
Charger efficiency	85%	88%	88%	
Power factor	> 0.95	> 0.95	> 0.95	
Input current at rated output (AC amps)	4	9	9	
GENERAL FEATURES AND CAPABILITIES				
Transfer relay capability	20 AAC (input current for charging and pass through)			
Battery temperature compensation	Yes, 15 ft Battery Temp Sensor standard			
Internal cooling	0 to 59 cfm variable speed			
Overcurrent protection	Yes, with two overlapping circuits			
Overtemperature protection	Yes, on transformer and MOSFETS			
On/Off with status indicator	Yes, front mounted and easily accessible			
Low battery cutout	10 or 20 VDC, adjustable on most models with the ME-RC remote			
AC output/AC input	Hardwire	Hardwire	Hardwire	
Output circuit breaker/Input circuit breaker	7A / 8AAC	15A / 20AAC	15A / 20AAC	
Listings	NA			
Warranty	Two years			
ENVIRONMENTAL SPECIFICATIONS				
Temperature (Operating/Non-operating)	-20° C to +60° C (-4° F to 140° F) to	o -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)	16.6" x 8.4" x 4.7" (42 cm x 21 cm	x 12 cm)		
Mounting	Shelf (top or bottom up) or wall (v	vents up)		
Weight	16 lb (7.3 kg)	22 lb (10 kg)	22 lb (10 kg)	
Shipping weight	18 lb (8.2 kg)	24 lb (10.9 kg)	24 lb (10.9 kg)	
Max operating altitude	15,000' (4570 m)			
		um bottom		
Construction	ABS plastic top and cast aluminu OFFICES 2211 West Casino Road Everett, Washington 98204 USA	ım bottom		
Sensata	425-353-8833			
Technologies	4467 White Bear Pkwy St. Paul, MN 55110 USA	a 1		
	800-553-6418	to change without no		
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