

The MM-AE Series Inverter/Charger



The MM-AE Series Inverter/
Charger is the cost effective solution for smaller power needs.

MODEL NUMBERS:

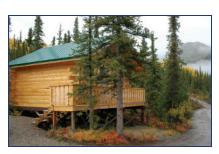
- MM612AE
- MM1512AE
- MM1524AE

AVAILABLE FOR:

 Renewable Energy Systems Off-grid Power
 Back-up Power

AVAILABLE ACCESSORIES:

- Fuse Blocks
- Remote





The Powerful Difference

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, 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 only 7.5 amps per 50 amps versus 12.5 amps used by 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.

Accessories and Options*

Remote control: Optional remotes are available for the MM-AE Series, including the MM-RC, and the ME-RC. A four wire phone jack comes standard with the unit to connect the remote.

^{*} For more detailed information and specifications on these accessories, please see the accessories data sheet.



MM-AE Series Inverter/Charger Specifications

Input battery voltage range		MM612AE	MM1512AE	MM1524AE	
Nominal AC output voltage 120 VAC ± 5% 100 Ms ± 0.1% 60 Hz ± 0.1% 42 d 45 10 see surge power (real watts) 1050 1500 2550	Inverter Specifications				
Output frequency and accuracy 60 Hz ± 0.1% 42 45 1 msec surge current (amps AC) 11 23 24 45 5 see surge power (real watts) 1100 2100 2650 1900 2575 30 see surge power (real watts) 1000 1750 2500 2500 35 see surge power (real watts) 590 1550 2350 2350 30 min surge power (real watts) 675 1525 1900 Continuous power output at 25° C (with 10 PF) 600 VA 1500 VA	Input battery voltage range	9 to 16 VDC	9 to 16 VDC	18 to 32 VDC	
1 msec surge current (amps AC) 27 42 45 100 msec surge power (real watts) 11 23 24 5 sec surge power (real watts) 1000 2100 2650 10 sec surge power (real watts) 1050 1900 2575 30 sec surge power (real watts) 950 1550 2500 5 min surge power (real watts) 675 1525 1900 5 min surge power (real watts) 675 1525 1900 Continuous power output at 25° C (with 1.0 PF) 600 VA 1500 VA 1500 VA Continuous current output 5 AAC 10 AAC 13 AAC Maximum input battery current 80 ADC 200 ADC 100 ADC Inverter efficiency (peak) 95% 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 vatts 18 watts 9 watts Charger efficiency 85% 88% 88% <t< td=""><th>Nominal AC output voltage</th><td>120 VAC ± 5%</td><td>120 VAC ± 5%</td><td>120 VAC ± 5%</td></t<>	Nominal AC output voltage	120 VAC ± 5%	120 VAC ± 5%	120 VAC ± 5%	
100 msec surge current (amps AC)	Output frequency and accuracy	60 Hz ± 0.1%	60 Hz ± 0.1%	60 Hz ± 0.1%	
See surge power (real watts)	1 msec surge current (amps AC)	27	42	45	
10 sec surge power (real watts) 1050 1900 2575 2500	100 msec surge current (amps AC)	11	23	24	
30 see 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 1500 VA Continuous current output 5 AAC 10 AAC 13 AAC 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 Wav Modified Sine Wav Modified Sine Wav Charger Edications Ton ADC 35 ADC 70 ADC 35 ADC Charger Efficiency 85% 88% 88% 88% Power Eactor > 0.95 > 0.95 > 0.95 > 0.95 > 0.95 > 0.95 > 0.95 > 0.95	5 sec surge power (real watts)	1100	2100	2650	
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 1500 VA Continuous current output 5 AAC 10 AAC 13 AAC 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 Si	10 sec surge power (real watts)	1050	1900	2575	
30 min surge power (real watts) 675 1525 1900 Continuous power output at 25° C (with 1.0 PF) 600 VA 1500 VA 1500 VA Continuous current output 5 AAC 10 AAC 13 AAC 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 wats 18 watts 9 watts Waveform Modified Sine Wave Modified Sine Wave Modified Sine Wave Charger efficiency 85% 88% 88% Charger efficiency 85% 88% 88% Charger efficiency 85% 88% 88% Power factor > 0.95 > 0.95 > 0.95 Input current at rated output (AC amps) 4 9 9 9 General Features and Capabilities 15 tt Battery Temp Sensor standard 15 tt Sattery Temp Sensor standard	30 sec surge power (real watts)	1000	1750	2500	
Continuous power output at 25° C (with 1.0 PF)	5 min surge power (real watts)	950	1550	2350	
Continuous current output	30 min surge power (real watts)	675	1525	1900	
Maximum input battery current 80 ADC 200 ADC 100	Continuous power output at 25° C (with 1.0 PF)	600 VA	1500 VA	1500 VA	
Maximum input battery current 80 ADC 200 ADC 100	Continuous current output	5 AAC	10 AAC	13 AAC	
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 Modified Sine Wave Charger Specifications Waveform 85% 88% 88% Continuous output at 25° C 30 ADC 70 ADC 35 ADC Charger efficiency 85% 88% 88% Power factor > 0.95 > 0.95 > 0.95 > 0.95 Input current at rated output (AC amps) 4 9 9 General Features and Capabilities 4 9 9 Transfer relay capability 20 AAC (input current for charging and pass through) 18 Battery Temps Sensor standard Battery temperature compensation Yes, 15 ft Battery Temp Sensor standard 18 Pattery Temp Sensor standard 18 Pattery Temp Sensor standard 18 Pattery Temp Sensor standard 19 Pattern Sensor Sens	•	80 ADC	200 ADC	100 ADC	
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 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 3 Eature Standard	Inverter efficiency (peak)	95%	95%	91%	
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No load (120 VAC output, typical) 10 watts 18 watts 9 watts Waveform Modified Sine Wave 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 Security and pass through Property and pass through Battery temperature compensation Yes, 15 ft Battery Temp Sensor standard Property and pass through Property and pass through Battery temperature compensation Yes, 15 ft Battery Temp Sensor standard Property and pass through Property and pass t	Search mode (typical)	3 watts	6 watts	4 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 Remote available (optional) Yes, MM-RC or ME-RC Internal cooling 0 to 59 cfm variable speed Overcurrent protection Yes, with two overlapping circuits Overtemperature protection Yes, with two overlapping circuits Overtemperature protection Yes, with two overlapping circuits Overtemperature protection Yes, front mounted and easily accessible Low battery cutout 10 or 20 VDC, adjustable on most models with the ME-RC remote AC output and input Hardwire Hardwire Hardwire Output circuit breaker 7 A switchable 12 A switchable 12 A switchable Institute of the saker 8 AAC 20 AAC 20 AAC Listings NA <					
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 Remote available (optional) Yes, MM-RC or ME-RC Internal cooling 0 to 59 cfm variable speed Overcurrent protection Yes, with two overlapping circuits Overcurrent protection Yes, front mounted and easily accessible Low battery cutout 10 or 20 VDC, adjustable on most models with the ME-RC remote AC output and input Hardwire Hardwire Hardwire Hardwire Hardwire Hardwire Hardwire Push witchable 12 A switchable 12 A swi		Modified Sine Wave	Modified Sine Wave	Modified Sine Way	
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 Remote available (optional) Yes, MM-RC or ME-RC Internal cooling 0 to 59 cfm variable speed Overcurrent protection Yes, with two overlapping circuits Overcurrent protection Yes, front mounted and easily accessible Low battery cutout 10 or 20 VDC, adjustable on most models with the ME-RC remote AC output and input Hardwire Hardwire Hardwire Hardwire Hardwire Hardwire Hardwire Push witchable 12 A switchable 12 A swi					
Charger efficiency 85% 88% 88% Power factor > 0.95 > 0.95 > 0.95 > 0.95 Input current at rated output (AC amps) 4 9 9 General Features and Capabilities Transfer relay capability Battery temperature compensation Yes, 15 ft Battery Temp Sensor standard Remote available (optional) Yes, MM-RC or ME-RC Internal cooling 0 to 59 cfm variable speed Overcurrent protection Yes, with two overlapping circuits Overtemperature protection Yes, front mounted and easily accessible Low battery cutout 10 or 20 VDC, adjustable on most models with the ME-RC remote AC output and input Hardwire Hardwire Hardwire AC output circuit breaker 7 A switchable 12 A switchable 12 A switchable Use of tricuit breaker 8 AAC 20 AAC 20 AAC Listings NA NA Warranty Two 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)					
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 BatteryTemp Sensor standard	•		<u> </u>		
Input current at rated output (AC amps)					
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 Remote available (optional) Yes, MM-RC or ME-RC Internal cooling 0 to 59 cfm variable speed Overcurrent protection Yes, with two overlapping circuits Overtemperature protection Yes, with two overlapping circuits Overtemperature protection Yes, front mounted and easily accessible Low battery cutout 10 or 20 VDC, adjustable on most models with the ME-RC remote AC output and input Hardwire Hardwire Hardwire Hardwire Output circuit breaker 7 A switchable 12 A switchable 12 A switchable Input circuit breaker 8 AAC 20 AAC 20 AAC Listings NA Warranty Two years Environmental Specifications Operating temperature -20° C to +60° C (-4° F to 140° F) Operating temperature -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 (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) 44 lb (10.9 kg)					
Transfer relay capability Battery temperature compensation Remote available (optional) Yes, 15 ft Battery Temp Sensor standard Yes, MM-RC or ME-RC Internal cooling O to 59 cfm variable speed Overcurrent protection Yes, with two overlapping circuits Overtemperature protection Yes, with two overlapping circuits Overtemperature protection Yes, front mounted and easily accessible Low battery cutout 10 or 20 VDC, adjustable on most models with the ME-RC remote AC output and input Hardwire Hardwire Hardwire Output circuit breaker 7 A switchable 12 A switchable 12 A switchable Input circuit breaker 8 AAC 20 AAC Listings NA Warranty Two 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 O 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 (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) Max operating and pass through Shelf (top or bottom up)	Input current at rated output (AC amps)	4	9	9	
Battery temperature compensation Yes, 15 ft Battery Temp Sensor standard Remote available (optional) Yes, MM-RC or ME-RC 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 and input Hardwire Hardwire Hardwire Hardwire Hardwire Hardwire Hardwire As witchable 12 A switchable 12 A switchable<	General Features and Capabilities				
Remote available (optional) Yes, MM-RC or ME-RC 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 and input Hardwire Hardwire Hardwire Hardwire Output circuit breaker 7 A switchable 12 A switchable Input circuit breaker 8 AAC 20 AAC 20 AAC Listings NA Warranty Two 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 (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 (vents up) Weight 16 lb (73 kg) 22 lb (10 kg) 24 lb (10.9 kg) Max operating altitude 15,000' (4570 m)	Transfer relay capability	20 AAC (input current for	charging and pass throug	h)	
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 and input Hardwire Hardwire Output circuit breaker 7 A switchable 12 A switchable Input circuit breaker 8 AAC 20 AAC 20 AAC Listings NA Warranty Two years Environmental Specifications Two years 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 (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 (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)	Battery temperature compensation	Yes, 15 ft BatteryTemp Sensor standard			
Overcurrent protectionYes, with two overlapping circuitsOvertemperature protectionYes on transformer and MOSFETSOn/Off with status indicatorYes, front mounted and easily accessibleLow battery cutout10 or 20 VDC, adjustable on most models with the ME-RC remoteAC output and inputHardwireHardwireHardwireOutput circuit breaker7 A switchable12 A switchable12 A switchableInput circuit breaker8 AAC20 AAC20 AACListingsNAWarrantyTwo yearsEnvironmental SpecificationsTwo yearsOperating temperature-20° C to +60° C (-4° F to 140° F)Nonoperating temperature-40° C to +70° C (-40° F to 158° F)Operating humidity0 to 95% RH non condensingPhysical SpecificationsDimensions (I x w x h)16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)MountingShelf (top or bottom up) or wall (vents up)Weight16 lb (7.3 kg)22 lb (10 kg)Shipping weight18 lb (8.2 kg)24 lb (10.9 kg)Max operating altitude15,000' (4570 m)	Remote available (optional)	Yes, MM-RC or ME-RC			
Overtemperature protectionYes on transformer and MOSFETSOn/Off with status indicatorYes, front mounted and easily accessibleLow battery cutout10 or 20 VDC, adjustable on most models with the ME-RC remoteAC output and inputHardwireHardwireHardwireOutput circuit breaker7 A switchable12 A switchable12 A switchableInput circuit breaker8 AAC20 AAC20 AACListingsNAWarrantyTwo yearsEnvironmental SpecificationsVariantlyVariantlyOperating temperature-20° C to +60° C (-4° F to 140° F)Nonoperating temperature-40° C to +70° C (-40° F to 158° F)Operating humidity0 to 95% RH non condensingPhysical SpecificationsPhysical SpecificationsDimensions (I x w x h)16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)MountingShelf (top or bottom up) or wall (vents up)Weight16 lb (7.3 kg)22 lb (10 kg)22 lb (10 kg)Shipping weight18 lb (8.2 kg)24 lb (10.9 kg)24 lb (10.9 kg)Max operating altitude15,000' (4570 m)	Internal cooling	0 to 59 cfm variable speed			
Overtemperature protectionYes on transformer and MOSFETSOn/Off with status indicatorYes, front mounted and easily accessibleLow battery cutout10 or 20 VDC, adjustable on most models with the ME-RC remoteAC output and inputHardwireHardwireHardwireOutput circuit breaker7 A switchable12 A switchable12 A switchableInput circuit breaker8 AAC20 AAC20 AACListingsNAWarrantyTwo yearsEnvironmental SpecificationsVariantsVariantsOperating temperature-20° C to +60° C (-4° F to 140° F)Nonoperating temperature-40° C to +70° C (-40° F to 158° F)Operating humidity0 to 95% RH non condensingPhysical SpecificationsPhysical SpecificationsDimensions (I x w x h)16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)MountingShelf (top or bottom up) or wall (vents up)Weight16 lb (7.3 kg)22 lb (10 kg)22 lb (10 kg)Shipping weight18 lb (8.2 kg)24 lb (10.9 kg)24 lb (10.9 kg)Max operating altitude15,000' (4570 m)	Overcurrent protection	Yes, with two overlapping circuits			
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AC output and inputHardwireHardwireHardwireOutput circuit breaker7 A switchable12 A switchable12 A switchableInput circuit breaker8 AAC20 AAC20 AACListingsNAWarrantyTwo yearsEnvironmental SpecificationsOperating temperature-20° C to +60° C (-4° F to 140° F)Nonoperating temperature-40° C to +70° C (-40° F to 158° F)Operating humidity0 to 95% RH non condensingPhysical SpecificationsDimensions (I x w x h)16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)MountingShelf (top or bottom up) or wall (vents up)Weight16 lb (7.3 kg)22 lb (10 kg)22 lb (10 kg)Shipping weight18 lb (8.2 kg)24 lb (10.9 kg)24 lb (10.9 kg)Max operating altitude15,000' (4570 m)	Low battery cutout	10 or 20 VDC, adjustable on most models with the ME-RC remote			
Input circuit breaker 8 AAC 20 AAC 20 AAC Listings NA Two 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 (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 (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)	AC output and input				
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Two yearsEnvironmental SpecificationsOperating temperature-20° C to +60° C (-4° F to 140° F)Nonoperating temperature-40° C to +70° C (-40° F to 158° F)Operating humidity0 to 95% RH non condensingPhysical SpecificationsDimensions (I x w x h)16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)MountingShelf (top or bottom up) or wall (vents up)Weight16 lb (7.3 kg)22 lb (10 kg)Shipping weight18 lb (8.2 kg)24 lb (10.9 kg)Max operating altitude15,000' (4570 m)	Input circuit breaker	8 AAC	20 AAC	20 AAC	
Two yearsEnvironmental SpecificationsOperating temperature-20° C to +60° C (-4° F to 140° F)Nonoperating temperature-40° C to +70° C (-40° F to 158° F)Operating humidity0 to 95% RH non condensingPhysical SpecificationsDimensions (I x w x h)16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)MountingShelf (top or bottom up) or wall (vents up)Weight16 lb (7.3 kg)22 lb (10 kg)Shipping weight18 lb (8.2 kg)24 lb (10.9 kg)Max operating altitude15,000' (4570 m)	Listings	NA			
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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 (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)	Physical Specifications				
Mounting Shelf (top or bottom up) or wall (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)		16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)			
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Shipping weight 18 lb (8.2 kg) 24 lb (10.9 kg) 24 lb (10.9 kg) Max operating altitude 15,000′ (4570 m) 24 lb (10.9 kg) 24 lb (10.9 kg)			•	22 lb (10 kg)	
Max operating altitude 15,000' (4570 m)					
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	Construction	ABS plastic top and cast aluminum bottom			

Magnum Energy, Inc.

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The Powerful Difference

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Testing for specifications at 25° C

Specifications subject to change without notice.

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