



MS-E Series Specifications

	MS1512E	MS2712E	MS4124E
Inverter Specifications			
Input battery voltage range	9 - 16VDC	9 - 17VDC	18 - 34VDC
Nominal AC output voltage	230 VAC ±5%	230 VAC ±5%	230 VAC ±5%
Output frequency and accuracy	50 Hz ± 0.4 Hz	50 Hz ± 0.4 Hz	50 Hz ± 0.4 Hz
Total Harmonic Distortion (THD)	< 5%	< 5%	< 5%
1 msec surge current (amps AC)	40	45	65
100 msec surge current (amps AC)	15	21	30
5 sec surge power (real watts)	3100	4100	6300
30 sec surge power (real watts)	2800	3750	5300
5 min surge power (real watts)	2200	3600	4750
30 min surge power (real watts)	1800	3500	4600
Continuous power output at 25° C	1500 VA	2700 VA	4100 VA
Maximum continuous input current	200 ADC	360 ADC	273 ADC
Inverter efficiency (peak)	89%	86%	90%
Transfer time	~ 20 ms	~ 20 ms	~ 20 ms
Search mode (typical)	8 watts	9 watts	9 watts
No load (230VAC output, typical)	20 watts	34 watts	30 watts
Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Charger Specifications			
Continuous output at 25° C	75 ADC	125 ADC	125 ADC
Charger efficiency (peak)	86%	83%	88%
Power factor	> .95	> .95	> .95
Input current at rated output (AC amps)	4.5	8.5	14
General Features and Capabilities			
Transfer relay capability	30 amps AC		
Five stage charging capability	Bulk, Absorb, Float, Equalize (requires remote), and Battery Saver™		
Battery temperature compensation	Yes, 4.6 m (15') BatteryTemp 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		
Listings	CE		
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 (l x w x h)	34.9 cm x 32.1 cm x 20.3 cm (13.75" x 12.65" x 8.0")		
Mounting	Shelf (top or bottom up) or wall		
Weight	19.1 kg (42 lb)	25.0 kg (55 lb)	25.0 kg (55 lb)
Shipping weight	23.2 kg (51 lb)	28.2 kg (62 lb)	28.6 kg (63 lb)
Max operating altitude	4570 m (15,000')		