



Product Data Sheet

No. 69680 - 12/13

ENERGY CENTER 1500 #9680



Sierra Wave® Energy Center 1500 is a contractor-grade portable power center that is rechargeable from solar, wind or 120V AC power. Use it as a backup power supply, as a mobile generator in the workplace or for recreation. It is silent and does not use gasoline, or CPG that emits hazardous fumes. Includes a 1500W pure sine wave inverter, a large 12V/120Ah AGM battery, and a built-in solar and wind charge controller. To double storage capacity, pair it with the Energy Center Buddy (#9681 sold separately).

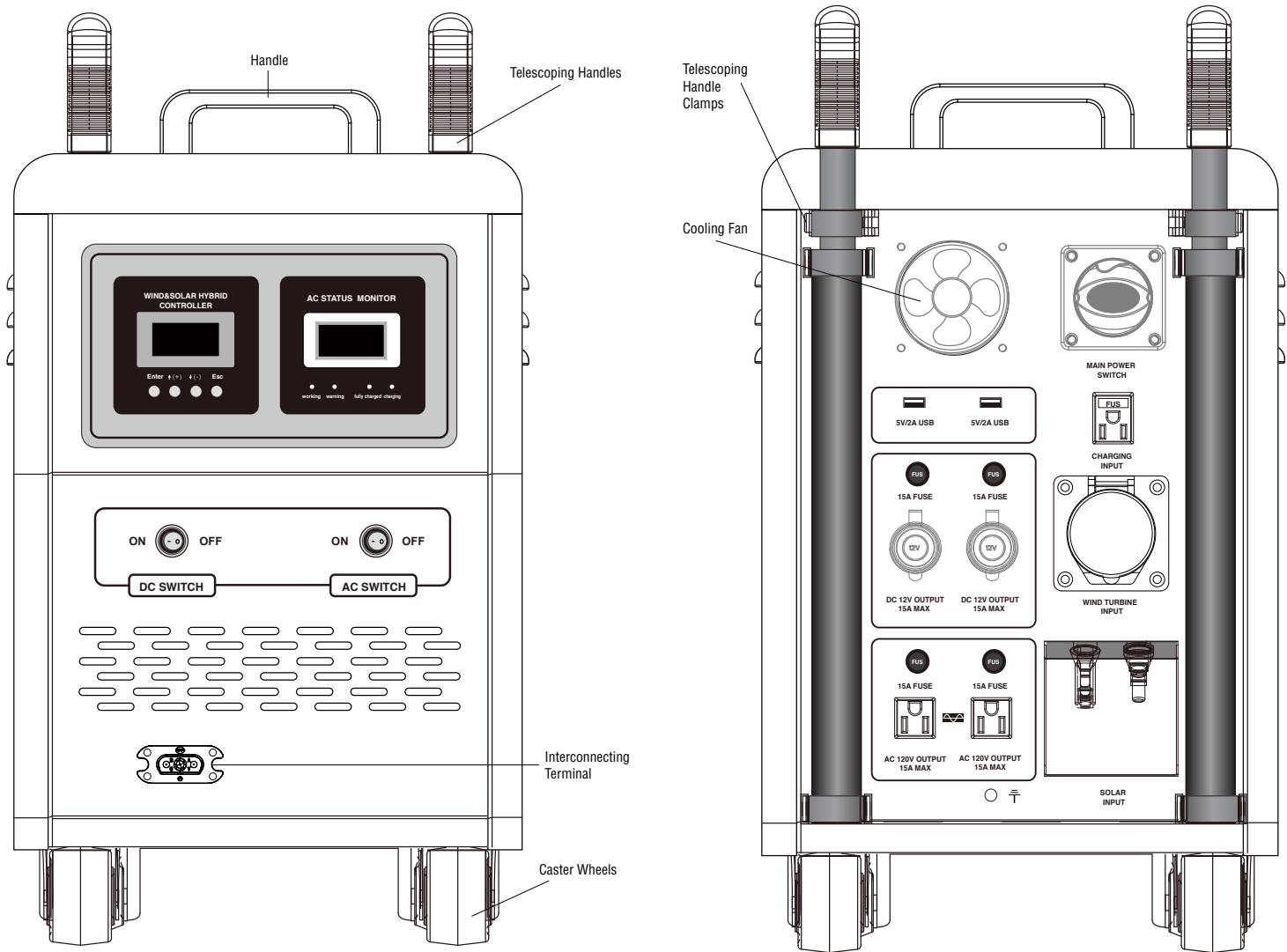
SPECIFICATIONS

Battery type	12V DC/120Ah AGM deep cycle - non spillable
Battery lifespan	500+ charge cycles based on 60-80% depth of discharge. Longer cycles based on 20-50% depth of discharge.
Inverter specification	Output waveform: pure sine wave Output voltage: 120V AC/60Hz (+/-) 5V Max. power output: 1500 watts Continuous power output: 1350 watts Peak surge power: 2500-3000 watts
Solar & wind controller	Charge shutoff voltage: 14.5V DC Battery overvoltage protection: 15V DC (+/-) 0.2V Battery overdischarge protection: 10.8V DC Solar input rating: 30V DC/240 watts max. Wind input rating: 12/24V AC 3-phase/400 watts (50A max) DC load #1 and #2 outputs: 12V DC/15A
AC power input.....	AC power cord: 125V AC/10A rated, 5ft. (1.5m) AC input: 80-140V AC/3A
Solar & wind power input.....	Solar: 30V DC/240 watts max. (MC4 connectors) Wind: 12/24V AC 3-phase/400 watts max.
Power output	120V AC: 2 outlets, 120V AC/15A each 12V DC: 2 outlets, 12V DC/15A each USB: 2 ports, 5V DC/2A each
Operating temperature	32° - 104°F (0° - 40°C)
Storage temperature	-4° - 120°F (-20° - 35°C)
Weight	170 lbs. (77kg)
Dimensions	31" L x 14" W x 25.5" H (78.74 x 35.56 x 64.77cm)
Certifications	FCC Part 15 and CE (EN650178:1997)

Packaging:

- Case = 1
- 180 lbs. (82kg)
- 7.8 CF (0.22 CM)
- 32" x 15.5" x 21" (813 x 694 x 610mm)

PARTS IDENTIFICATION

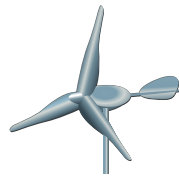


Pure Sine Wave Inverter Information: Do not connect any AC device above 1500 watts to the 120V AC outlets. An in-line protection fuse and overload protection circuit is included for added safety. Pure sine wave power is suitable for most AC devices and power supplies used in electronic equipment, transformers, and motors. Aervoe assumes no liability if used with medical equipment or life support systems.

Available Accessories



9590 Sierra Wave®
120-Watt Solar Collector



400W wind turbine



9681 Sierra Wave®
1500W Energy Center Buddy

WARRANTY

1-year performance warranty on all products from date of purchase. Report to home office or local Aervoe representative for examination. Because Seller cannot control Buyer's handling or use of product, Seller makes no warranty expressed or implied when not used or stored in accordance with directions. Seller shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to repair or replacement of product at company option.

OPERATING INFORMATION

The Sierra Wave Energy Center 1500 operates essential home appliances, portable appliances, security systems, pumps, power tools, lighting, and communication equipment using the 3 power output options (120V AC, 12V DC and USB). After it is charged, the Energy Center is ready for just about any power need. The built-in charge controller and circuit protection makes it safe and easy to use. Includes 4-wheels and a telescoping handle for easy transportation across all terrain. Please reference the operating instructions for complete information (available at www.aervoe.com)

CHARGE TIME	Times are estimates based on ideal power conditions. Actual times will depend on the battery's charge state and solar and wind conditions.	
	120Ah Primary Battery	240Ah Primary & Secondary Battery Used
120V AC Charging	8-10 hours	18-24 hours
Solar Charging: 1-#9590 120W Solar Collector 2-#9590 120W Solar Collectors	12-14 hours 6-8 hours	24-28 hours 12-16 hours
Wind Turbine Charging 10-20 MPH wind speed 20-25 MPH wind speed	15-18 hours 8-12 hours	25-35 hours 14-22 hours

120V AC DEVICE: SAMPLE RUN TIMES	Times are based on a fully charged Energy Center 1500. Actual times vary depending on device type/size and the output/load connected output. All values are based on 80% depth of discharge for batteries and normal AC inverter loss.	
	120Ah Primary Battery	240Ah Primary & Secondary Battery Used
18.8 cu. ft. Refrigerator (100-150W) Based on an already chilled refrigerator.	8-10 hours	18-20 hours
DIY Paint Sprayer (100-150W)	8-10 hours	18-20 hours
Sump or Water Pump (150-200W)	6-8 hours	16-18 hours
Electric Power Tools	1-5 hours	2-10 hours
Portable Heater	1-3 hours	2-6 hours
Window Air Conditioner (750-1000W)	1-3 hours	2-6 hours
LED Industrial Lighting (50-100W)	10-12 hours	20-25 hours
Laptop (50-75W)	18-20 hours	36-42 hours
Large Flat Screen TV	5-10+ hours	10-20 hours
Microwave Oven (1000W)	Up to 1 hour	Up to 2½ hours

12V & USB DEVICE: SAMPLE RUN TIMES	Times are based on a fully charged Energy Center 1500. Actual times vary depending on device type/size and the output connected output. All values are based on 80% depth of discharge for batteries.	
	120Ah Primary Battery	240Ah Primary & Secondary Battery Used
12V Thermoelectric Cooler (40-50W)	30 hours	62 hours
Max Burton Digital Stove To Go #6905 (100-130W)	11 hours	24 hours
Sierra Wave Portable/Rechargeable LED Work Light #9710 (10W continuous)	120 hours	250 hours
Sierra Wave Portable Area Light #9721 (9W)	130 hours	270 hours
Tablets such as iPad, Kindle, etc. (10-12Wh)	Over 100 full recharges	Over 200 full recharges

SHIPPING, STORAGE AND HEALTH

UN number UN2800
 Proper Shipping Description Batteries, wet, non-spillable
 Hazard Class 8
 Packing Group PGIII
 Limited Quantity No
 Warehouse storage level number N/A
 Storage temperature -4° - 120°F (-20° - 49°C)
 Shelf life N/A

HMIS ratings
 Health 3
 Fire 0
 Reactivity 2