






## Technical Specifications Explained and Compared

SunRunr Technical Specifications and Information	What does this mean to you? How does it compare? Why does it matter?	
<p><u>Power Generation (Kyocera KD140SX)</u></p> <ul style="list-style-type: none"> <li>● 290W Solar Included: two hinged, pre-wired panels; 20+ yr life; 30' plug-and-play cable standard; up to 150' optional</li> <li>● ~59"h x 26"w x 2"d, 27lbs each; rugged; stand-alone, aluminum frame; rack optional</li> <li>● 30-amp solar PWM charge controller: LCD digital voltmeter and solar current ammeter display; battery and charge status LEDs</li> <li>● Solar/Aux charging portals with accessible 30-amp fuse protection</li> </ul>	<ul style="list-style-type: none"> <li>● Recharge a fully discharged SunRunr in 10 hours of bright sun (be sure to compare battery sizes when comparing recharge times)</li> <li>● Place unit where power is needed and panels where the sun is shining</li> <li>● Panels are sized to charge battery at rate for best battery health</li> <li>● Use unit with or without panels connected</li> <li>● SunRunrs are prewired for panels and other energy sources - Aux portal accepts other 12V DC supplies up to 30A (wind/water turbine, AC-DC charger, bicycle)</li> </ul>	 <p style="text-align: center;">Panels with Rack</p>  <p style="text-align: center;">Other RE Generation Options</p>
<p><u>Power Storage (Deka 8A8D)</u></p> <ul style="list-style-type: none"> <li>● 12VDC rechargeable AGM battery: 2940 Wh (245Ah x 12VDC), 5+ yr life, 150-3100 cycles</li> <li>● Best battery life by only using 2/3 battery capacity before recharging, i.e. "usable storage"</li> <li>● 2000 Wh "usable" before recharge required</li> <li>● Sustainable usage rate (what you may use every day if the two panels have 6 hours of sun per day) is 1500W per day per unit</li> <li>● Replaceable and recyclable</li> <li>● Li-Ion batteries have advantages, but not good for high surge output - optional upgrade, but high cost</li> </ul>	<ul style="list-style-type: none"> <li>● Smaller-battery systems are limited as to supplemental daily usage or emergency backup (e.g. 600Wh can only run a fridge 4 hours per <u>day</u>)</li> <li>● 1500W/day is about 5% of average US home use (only ~\$73/yr, but reduces demand on utility, too)</li> <li>● For example, at sustainable usage rate, a SunRunr can run a refrigerator 8 days out of 10 or provide power for 2 loads of laundry per day or run a 3/4Hp well pump daily or power tools at a construction site</li> <li>● A SunRunr is not just for emergency backup power - best battery life achieved with usage</li> </ul>	 <p style="text-align: center;">Deka non-spillable, absorbed glass mat, 245Ah, 160lb, rechargeable battery</p>
<p><u>Power Output - DC</u></p> <ul style="list-style-type: none"> <li>● 12V DC standard socket (convertible to USB port)</li> <li>● High-amp DC output using aux plug or link cord</li> </ul> 	<ul style="list-style-type: none"> <li>● SunRunrs offer various direct DC outputs</li> <li>● USB ports are convenient, but low amperage. Products focusing on USB outlets might be best at charging phones, not powering appliances.</li> </ul>	

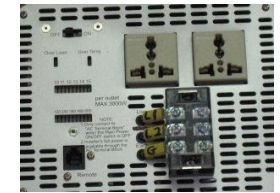
Power Output - AC Inverter

- 3500+W max continuous power (rated 5,000W/10,000W surge); modified sine wave
- SUN110 110-120VAC 60Hz (US standard wall)
- SUN240 220-240VAC 60Hz (US well pump, etc)
- SUN220 220VAC 50Hz (international)
- Pure sine upgrade (3kW/6kW surge) option
- LED bar graph meters – AC load, DC status
- Power and fault LED indicators
- Low voltage alarm and automatic shutdown
- 4 outlets 110; 2 universal outlets 220-240

- Inverter output wattage (continuous/surge) defines how many devices and/or of what power you can run
- For example, a SunRunr can run a fridge, microwave, fans, lights, TV, and computer simultaneously
- Inverters rated to at least 1800W ensure the running of ANY appliance you can plug into a household outlet
- A 1200W inverter or smaller may not be able to run a 1000W microwave much less any other appliance at the same time
- Many high amp load tools (compressors, well pumps, table saws) only run for short duty-cycles, but if you can not start them (surge), you can not run them



110VAC Inverter



220-240VAC Inverter

System Features

- Rugged master on/off disconnect switch
- Steel chassis enclosure for ruggedness and safety; fully powdercoated for long-life protection
- 4" caster wheels for easy rollability
- Sturdy handles for lifting
- 28"l x 15"w x 30"h; ~260 lbs
- Detailed user's manual
- One-year manufacturer's warranty
- Easy to operate plug and play
- Silent, minimal maintenance
- 75% by value American-made components; 100% assembled in America
- Expandable system: quick-connect portal links SUNPWR (identical to above without inverter) or any other unit to any main unit to expand (double, triple, ...) electricity generation and storage

- Systems using hardened plastic or Pelican Boxes lack the level of safety that SunRunr's steel enclosures offer in the unlikely case of battery event
- Other SunRunr safety features include the ability to fully disconnect the battery and a design that protects the user from all dangerous electrical connections
- Of course Chinese-made products will be slightly less expensive than SunRunrs, but of lesser-quality, dependability, and life span
- One company in particular has simply copied SunRunr, the original, patented portable solar electric system, in shape and even color, yet they were unable to match the high-capability and investment quality
- All SunRunr systems qualify for the 30% Federal tax credit and many state tax incentives
- SunRunr systems are independent, tiny grids



SunRunr System



Expandable

- Be sure to compare apples to apples, not oranges
- Compare cost to Watts, what is included, etc

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