



## Trailer Mounted Hybrid Power System

This specially constructed trailer carries a Solar/Wind/Gen-Set hybrid power system. The total power generated by the system shown here is 4KW DC. These trailer systems are designed to provide temporary power at remote production sites. They can be deployed for emergency or temporary power to any location accessible by truck. Because the power generated is DC power, these systems are ideal for communications and monitoring applications.

A 1.3KW solar array is mounted to a reinforced frame that folds flat for transport, and is tilted once on location. A Rohn™ 24 tower extends from a tilting base at the front of the trailer to hold a 400W wind turbine or antenna. A 2.4KW propane/natural gas fueled generator supplements battery charging when solar or wind power is not quite enough.

The trailer carries sixteen 265Ah batteries housed in a NEMA 3R white powder coated aluminum enclosure, for 50KWh @ 48VDC. The trailer is equipped with tandem 6000 lb. axles, 4-wheel surge brakes, and outrigger stabilizer jacks. For details, please see the reverse of this page.



▲ Trailer system shown ready for towing.

**SOLARCRAFT**  
POWER PRODUCTS

# System Details

▶ Two NEMA 3R lockable powder coated aluminum enclosures house sixteen 265Ah batteries.



▲ Lockable powder coated aluminum enclosure houses the solar controller and additional electronics for remote monitoring.

▼ Sixteen 80W panels mounted to a heavy duty array frame can be tilted to the correct angle once on site. The heavy duty truss array frame can accommodate an additional 8-panel array on each side of the trailer, folded out and tilted, for a total of 32 panels, and up to 4KW solar power.



◀ Wind turbine generates up to 400W at 28mph.



▲ Tilting mount for Rohn™ 25 tower is built onto the trailer tongue.



▲ DC generator set has an output rating of 2.4KW. This generator uses an air-cooled engine fueled with propane or natural gas.



▲ Heavy walled 3" square steel tubing outriggers extend up to 8' from trailer to add stability, especially on uneven ground.



▲ 6000 pound dual axles, with 4 wheel surge brakes, and 16" 8-lug tires. Spare tire included.



▲ Lockable steel box securely houses tools, parts, and supplies.

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