



Solar-Current.Com



What is this?

Sun Power To Go. This is a picture of Solar-Current's Mobile Solar Array (MSA) set up to collect sun for an evening movie event for the [Piasa Winery & Pub](#) in Grafton, IL. This was our first real world test and we stepped up to the challenge by providing all the power for the evening's movie by [Outdoor Cinema Events](#). Jay Sinclair, with Outdoor Cinema events, said this was his first totally green event. Our MSA provide all the power for Jay's projector, inflatable screen (blower), and killer sound system!

We hope to work with Jay and his team on some future events. Solar power sure beats a noisy gas generator!

If you have an outdoor event and need power shoot us an eMail. We are looking for more opportunities to prove and test the MSA!

How does it work?

The MSA is very similar to a portable electric generator. Instead of using gas to generate electricity it uses sunlight. It has batteries to collect the sun during the day, allowing it to store energy for use anytime there is demand.

The MSA has three major components:

Solar Array:

The Solar Array is made up of 12 Sharp Polycrystalline modules each capable of producing 190 watts of power. These solar modules convert photons from the sun into electricity. This gives the MSA the capability to produce 2.3kw of electricity in full sunlight.

Battery Storage:

The electricity from the Solar Array flows to one of two places. It can flow directly to a device that is plugged into the MSA such as a projector, refrigerator, even the AC in your house or it can flow to the onboard batteries for storage and use at a later time.

The MSA has 8, 12 volt batteries set up in a series parallel configuration. This gives the MSA two 48 volt banks of electricity. The batteries are important since the MSA cannot produce electricity at night or on cloudy days. At these times the batteries are used to generate electricity.

Inverter:

The inverters are used to convert the 48v DC electricity in the batteries to 110 / 220v AC electricity used by household appliances. The two inverters in the MSA are capable of producing 3,600 watts of power each from the battery bank. This gives the MSA the 7.2kw rating of power. The inverters can deliver the power to both 110v and 220v ac loads.

Our goal is to have the MSA ready for distribution in the spring / summer of 2011.



If you would like more information on the MSA or would like to schedule a showing of this prototype contact John Rucker at John.Rucker@Solar-Current.com. Follow us on [Facebook](#) for more pictures and updates.