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What is the emPower Plant™?

The emPower Plant™ is a lower cost way to supply long-lasting life saving electricity in remote and developing regions of the world.

Where are you located?

Sunflower Solutions is located at 3558 Lee Road Shaker Heights. Ohio 44120.

Where do you manufacture?

The United States.

How can I contact you for further information?

For more information, visit our website at www.thesunflowersolutions.com

Email us at info@thesunflowersolutions.com

Or call us at: 216.255.3072

Do you accept donations?

Currently we do not, however if you would like to donate and help bring power to those who need it the most, we can recommend several options through organizations we are currently working with.

Do I have to buy everything from you?

No, if you have your own solar panels already purchased you can use those. We do not require you to purchase any specific parts from us, if you need certain items and not others just let us know.

What makes the emPower Plant™ different?

Sunflower Solutions' emPower Plant™ Solar Power systems make use of our patented manual tracking technology which allows a person to adjust the angle of the emPower Plant to generate even more power. By leveraging a person's involvement we use fewer expensive solar panels to produce the same amount of power and saving you money.

What is included in your emPower Plant™ system?

Every emPower Plant™ includes:

- Solar modules
- Deep cycle solar batteries for storage
- Solar inverter sized to your needs
- Solar charge controller sized to your needs
- Sunflower Solutions' patented manual solar tracking array
- PreciSun instructions for your specific project location
- Cables to connect your batteries, solar panels, inverter and charge controller
- Breakers, junction boxes and other recommended safety equipment
- Battery meter to monitor your power levels

How big is an emPower Plant?

Total sizes vary depending how much power your specific needs require. Most of our solar arrays are 10ft x 10ft in size.

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How much does a complete system weigh?

Total weight varies greatly depending on each customer's specific needs. For example, battery storage is a large factor in the total shipping weight as batteries are very heavy so the more storage that is needed the heavier the total shipping weight even when using the same number of solar modules.

How much power does the emPower Plant™ produce?

The emPower Plant™ generates as much power as is needed for your project, this is an advantage of generating power from the sun. The emPower Plant™ can be made larger or smaller or even have multiple solar arrays strung together to increase its power generation if your needs require more power than is provided by a single unit. A fully loaded emPower Plant™ array can generate up to 16kWh on clear day.

How long does it take to manufacture an emPower Plant™?

Shipping usually occurs 4-6 weeks depending on the size of the order. Smaller systems ship quicker and very large orders may take slightly longer.

What is the installation process like?

Please refer to our website or contact us directly for detailed installation instructions concerning the emPower Plant™ system.

Is it difficult to use?

No, the emPower Plant™ is easy enough to use by teenagers to adults, requires no previous education or training and takes only a few minutes a day to operate.

What maintenance is required?

The emPower Plant requires little in the way of maintenance due to the nature of solar technology and its robust design. You should keep the solar panels as clean as possible by wiping them with a wet cloth whenever they accumulate dust or dirt. Periodically check the tracking array and electronics for any potential problems, keep all connections and bolts tight and secured and replace them quickly if necessary. If electrical work is needed, first disconnect the solar panels and the batteries to prevent risk of electrical shock.

Do I need a technician or other trained person to help me install an emPower Plant™ system?

No formal training is needed to install the emPower Plant™. However since you are working with potentially dangerous electrical equipment we recommend that at the right time (when the electronic connections are ready to be made) you turn over the installation to a trained electrician to finish the process. The majority of installing an emPower Plant requires no training.

Is shipping included?

We will ask you what your shipping plans are, if you would like we will include a quote to ship your emPower Plant™ to the nearest port or airport to your final project location.

Are you a non-profit company?

Sunflower Solutions is an LLC incorporated in the state of Ohio, we are not a non profit.

Does the emPower Plant™ work in all parts of the world?

Yes, being a solar-based technology, the emPower Plant™ works when deployed in any location in the world. The tracking motion of the emPower Plant™ maximizes the power output in any location around the globe.

Do the people using the emPower Plant™ need to be able to read and speak English?

No, Sunflower Solutions' emPower Plant™ works based on a simple combination of colours and numbers that does not require any language proficiency.

Is the emPower Plant™ safe to stay outside?

A few components of the emPower Plant™ should be installed indoors, such as the batteries, inverter and charge controller, other parts like the solar panels are rated for almost any weather conditions and are made to be installed outdoors. Our manual tracking arrays have bad weather positional settings for inclement weather.

Where should I locate the emPower Plant™ at my site?

The emPower Plant™ should be installed in a location that gets direct sunlight all day and is as close to your power needs as possible. For example, if you are powering a water well, you want your emPower Plant™ to be as close to the water well as possible.

Can the emPower Plant™ install on my roof?

Most often not, the emPower Plant™ is designed to be secured into the ground and to be easily accessible.

What type of solar panels does the emPower Plant™ use?

The emPower Plant™ uses almost any commercially available brand of crystalline solar modules.

Can it be used with thin film solar panels?

Currently it cannot.

Can the emPower Plant replace diesel generators entirely?

Yes, and at a lower cost over-time too. However we recommend that you hang on to that old generator as it makes for a great backup system in case of an emergency.

Can the emPower Plant™ harness wind power as well?

No it cannot. Sunflower Solutions focuses instead on developing useable solar technologies in remote areas due to its much higher reliability over wind.