

Understanding Your Solar-Powered Electric Vehicle



**Home of the Sunray and Kudo
Solar-Powered Electric Vehicles**

Most people in today's age have heard about solar power. And most everyone understands the benefits of conserving energy...from the value to the earth to the added value in your wallet.

But not many people understand how solar power works. Not many people know that there are state and federal tax credits for purchasing solar-powered vehicles.

*Solar-Powered
Kudo SX4*



More importantly, not many people know that there's a solar-powered vehicle that's stylish, practical and affordable. **Cruise Car is here to change all that...**

How Solar Cells and Solar Panels Work.

Quite simply, solar cells convert direct sunlight into electricity. A series of cells, such as the one on the Sunray Solar Top, are connected in series to provide a charge to the 48 volt battery.



*Solar-Powered
Sunray SX2*

How Solar Cells Work in Conjunction with a Battery Powered Electric Vehicle.

Think of the batteries in a Golf Car or Electric Vehicle as the gas tank in your automobile. When full, you have 150 gallons of fuel or amps. Let's say you use 50 gallons or amps in a day of driving. On a clear and sunny day, the Sunray Solar Top will replenish 12 gallons or amps in the winter when the days are shorter and 18 gallons or amps in the summer when the days are longer. If you don't drive the vehicle for three days and you park it in the sun, the Sunray Solar Top will generate 36 gallons or amps in the winter and 54 gallons or amps in the summer. So, in effect, you would fill your tank in three days.

The Sunray and Solar Kudo Will Extend the Life of Your Battery.

Because the Sunray Solar Top is providing a continuous charge to the batteries on sunny days, the batteries will maintain a better state of charge. Watch the battery gauge and when it gets down to near empty, just plug in the automatic charger and let the batteries get a full charge. The batteries won't take as long to charge nor require nearly as much electricity as all other non-solar vehicles. Remember, check the water level in your batteries once a month.

Long Lasting, Easy Maintenance.

Our Solar Tops are designed to last for 20 years and require little maintenance. For maximum efficiency, simply clean with soap and water.

Frequently Asked Questions...

How does the solar work?

The solar cells, built into the panel, convert sunlight to electricity just like a solar calculator only with a lot more power.

How much power does the solar panel produce?

The solar panel is designed to charge the six 8 volt batteries, which is a 48 volt battery system. The panel produces 60 volts to charge the 48 volt batteries. The panel produces up to 180 watts @ 60 volts, so a 3 amp continuous charge is produced from the panel when exposed to direct sunlight.

How does that affect the vehicle?

It increases the range of the vehicle between charges by up to 33%. So if a regular, non-solar vehicle gets 40 miles between charges, the Sunray Solar vehicle will travel 55 miles between regular plug in charges.

Another benefit is that the solar will extend the battery life by giving the batteries a continuous charge. If a normal set of batteries last three years, the Sunray could extend the battery life an additional two years or more.

Also, the vehicle is a portable solar generator. If the regular power goes out, the vehicle has a 12 volt plug so you can plug 12 volt appliances into it such as a small TV, lights and even a small refrigerator. If you plug an inverter into the 12 volt socket you can operate regular 110 volt appliances off of the batteries.

Finally, the Sunray Solar Top has no moving parts and is designed to last 20 years, assuming it is not damaged by an accident. The Sunray Solar Top will never lose its value and when sold to a new owner, that owner will be able to take the tax credits if they are still available at that time.

How does the tax credit work?

As of January 1, 2006, an investment tax credit for utilizing solar went into effect. IRS form 3468 line 2b allows for a 30% tax credit for investing in solar. The solar panel and the batteries are all part of a solar system on the vehicle. The retail value of this system is \$2,700.00 for the solar panel and \$600.00 for the batteries, which equals \$3,300.00. Therefore, the tax credit for our Sunray Solar vehicle is \$990.00. Be sure to check with your state for additional tax credits.

For example, in the state of Florida there is a Solar Energy Systems Sales and Use Tax Exemption, Florida Law section 212.02(26) and 212.08(7). \$3,300.00 of the cost of a \$6,000.00 Sunray vehicle qualifies as a portable solar generator. So you only pay state sales tax on \$2,700.00 instead of the full \$6,000.00. Therefore, instead of paying \$410.00 in sales tax, the customer pays only \$162.00 in state sales tax – an additional savings of \$248.00. So, a customer in Florida will save a total of \$1,238.00 on a \$6,000.00 Cruise Car solar electric vehicle. Check with your state for solar incentives.

Can I make my vehicle street legal?

Yes. Our Sunray and Kudo vehicles can be made street legal. They now come with VIN#'s. Check with your state and community regarding the laws in your area.



See our website for more information:

www.cruiseinc.com

Solar Tax Credits – Save Money, Save the Earth

You should get credit for buying solar, and the government agrees!

You can get credit for buying solar on form 3468, line 2b. Below is an example of the breakdown for that credit*:

| | | |
|-------------|---|------------|
| Solar Panel | = | \$2,700.00 |
| Batteries | = | \$600.00 |
| | | <hr/> |
| | | \$3,300.00 |

Total on line 2b of IRS Form 3468 is
 $\$3,300.00 \times 30\% = \990.00 .

Total savings will vary depending on additional allowances provided by each state. Check with your particular state for these allowances.

**Based on purchase of a Cruise Car Solar Sunray SX2.*

Helpful Link

Use the following link for general instructions and the 3468 form:

<http://www.irs.gov/pub/irs-pdf/f3468.pdf>

**Solar-Powered
Kudo SX6**



Pick Your Color. Choose Your Style. There's a Cruise Car for Everyone.

*Solar-Powered
Sunray
SX2*



*Kudo
TX2*



*Kudo
X6*



*Solar-Powered
Sunray SX4*



*Solar-Powered
Sunray
SX4*



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