

# Solar Electricity for Homes

While the science of converting sunshine into electricity is complex, the idea is pretty simple. Solar electricity is generated by a group of solar modules called an array that's installed on your roof or in your yard. When sunlight falls on the solar modules, a DC electrical current is created instantly. The DC electricity is fed into an inverter that changes it to standard AC electricity - the same kind your home already uses.







**Solar Visor AM/FM Speaker Radio**



**Solar battery charger**



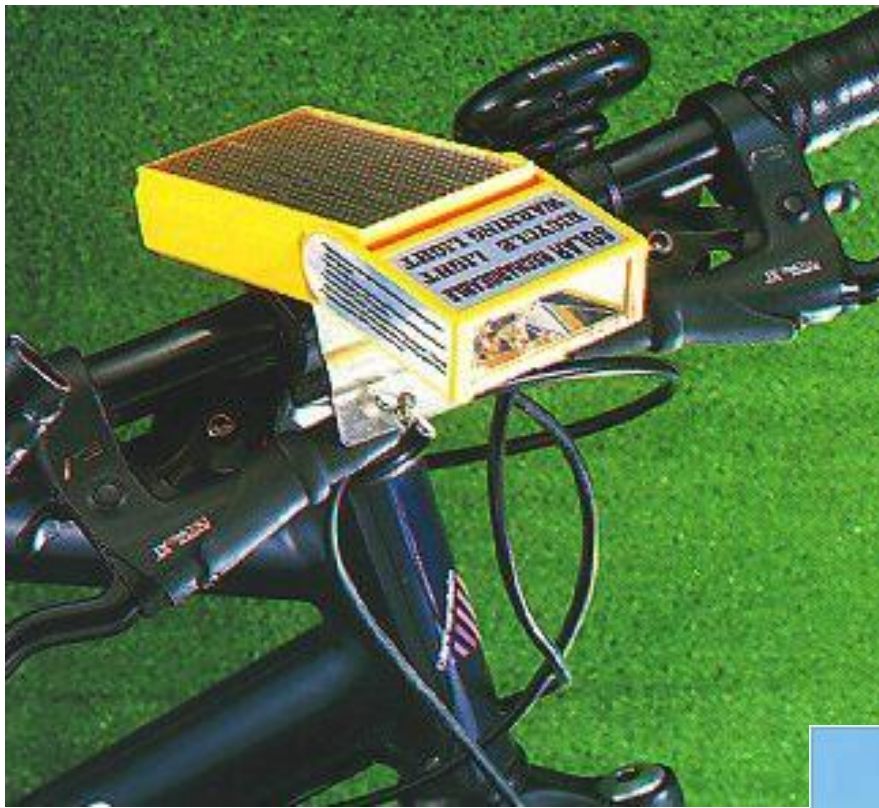
**Solar camping bag**



**Battery charges via USB or solar power**



**Solar phone**



**Solar Rechargeable Bike Light With  
Blinking and Searching Light**

**Solar Panel Voltage (Voc): 4.5V  
(maximum)**

**Solar Panel Current (Isc): 60mA  
(maximum)**

**Light Bulb Voltage/Current: 2V/200mA**

**Charging Time: 5 - 6 hours (in full  
sunlight)**

**Operating Time: 1 - 1 1/2 hours**

**Dimensions: 15cm x 5cm x 2.6cm**

**Weight: 170 grams**

**Regularly \$24.95 -- Now only \$19.95**

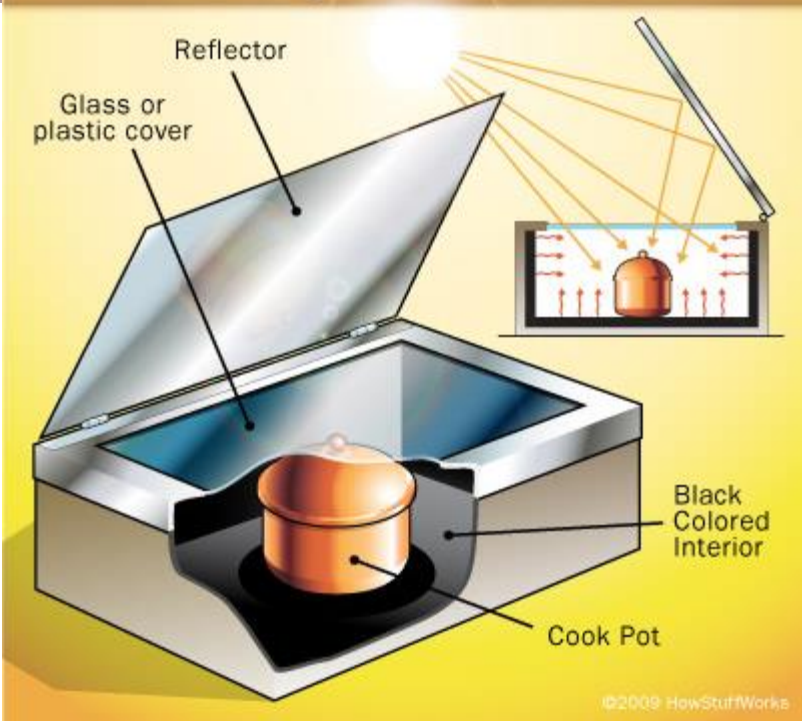


**Solar street lights**

# Solar ovens



*Cooked in One Day!*





### **Product Features**

- Power (Pmax) : 5W
- Maximum power voltage ( Vpm ) : 17.5V;  
Maximum Power Current: 0.28A
- Cable lengths : 12.5'
- Open circuit voltage ( Voc ) : 21.95V
- Charge controller prevents overcharging of 12-volt batteries
- \$40

This kit is designed to primarily charge 12-Volt batteries, which store and provide usable power when needed, ideal for powering your RVs, ATV, marine boats and electronic equipment. The included solar charge controller helps prevent any connected batteries from overcharging.

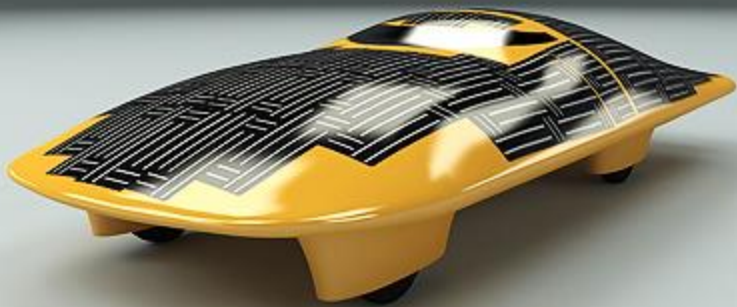


## Product Features

- Includes 7 adapter tips (MicroUSB, MiniUSB, FemaleUSB, New Samsung, New LG, New Nokia, and New Sony Ericsson)
- It measures 4.7 x 1.3 x 2.5-Inch and 78 grams with one year warranty
- Internal 1,650 mAh rechargeable lithium-ion battery stores power for up to one year
- 1 year warranty
- ~\$35

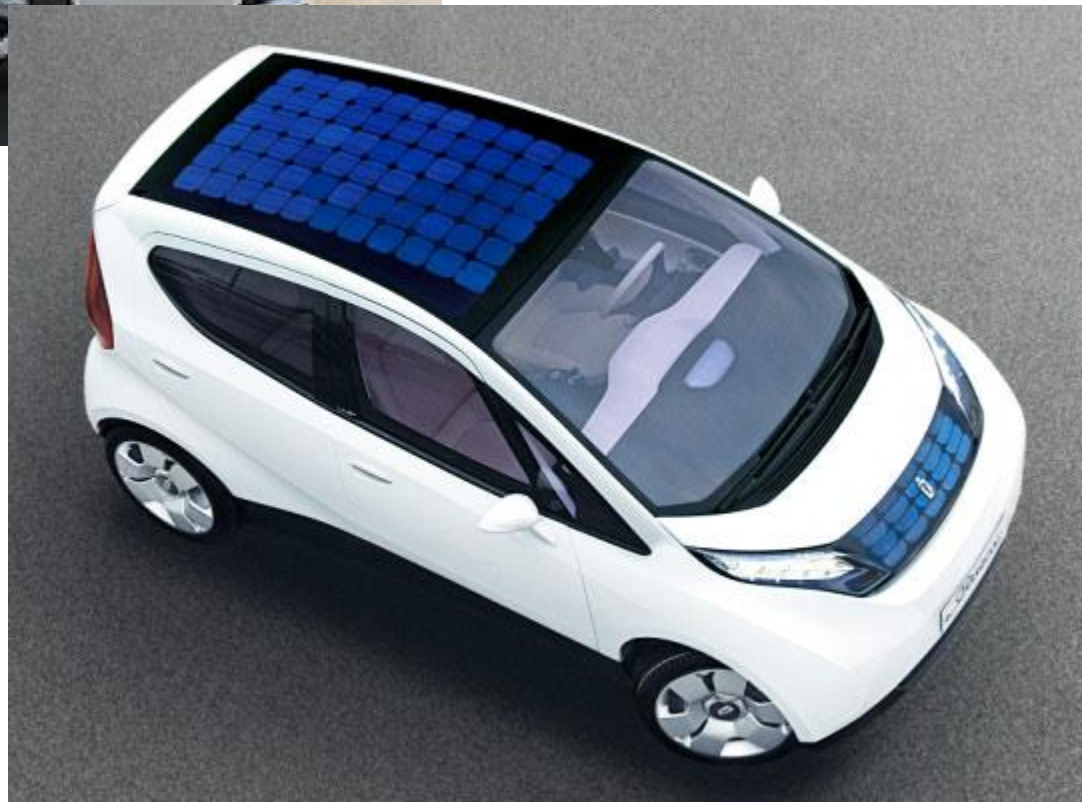
The new Solio Classic Hybrid Solar Charger (updated 2010). The Classic works with iPhone/iPod right out of the box, and also supports Micro-USB devices such as Blackberry, Motorola, LG, etc. The Classic features a folding three-panel design, three photovoltaic cells plus a full-size charging battery enabling quick re-charging of your portable electronic devices. Charge the Classics battery one of three ways: directly from the sun using the integrated solar cell, or from your computer using the included USB charge-in cable, or from the included rapid wall charger. The 1,650 mAh internal Lithium-Ion rechargeable battery stores power until you need it - for up to one year. Select the appropriate adapter tip, connect it to your electronic device, press the start button and you are charging on-the-go. Just 1 hour of sunshine = 20+ minutes talk time or 50+ minutes MP3 music (depending on device).

## Solar cars





Solar panels added to the roof to run the AC.

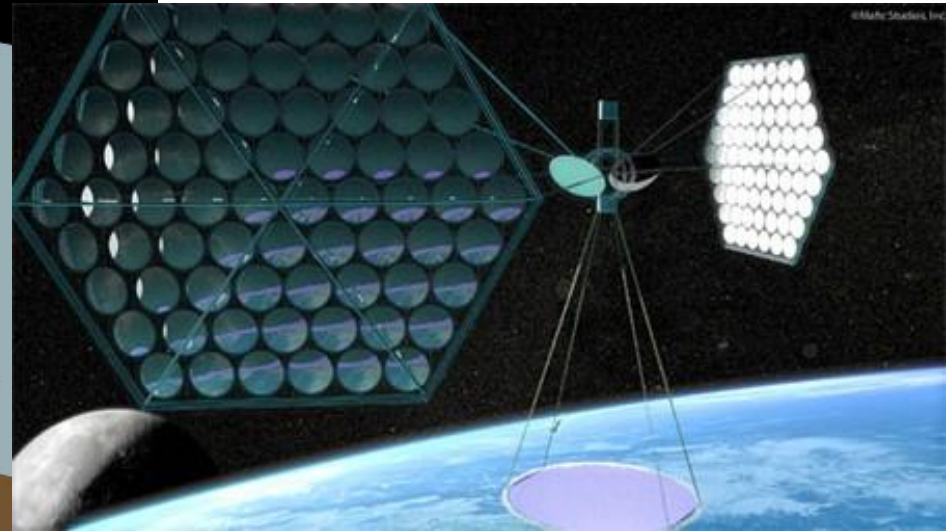
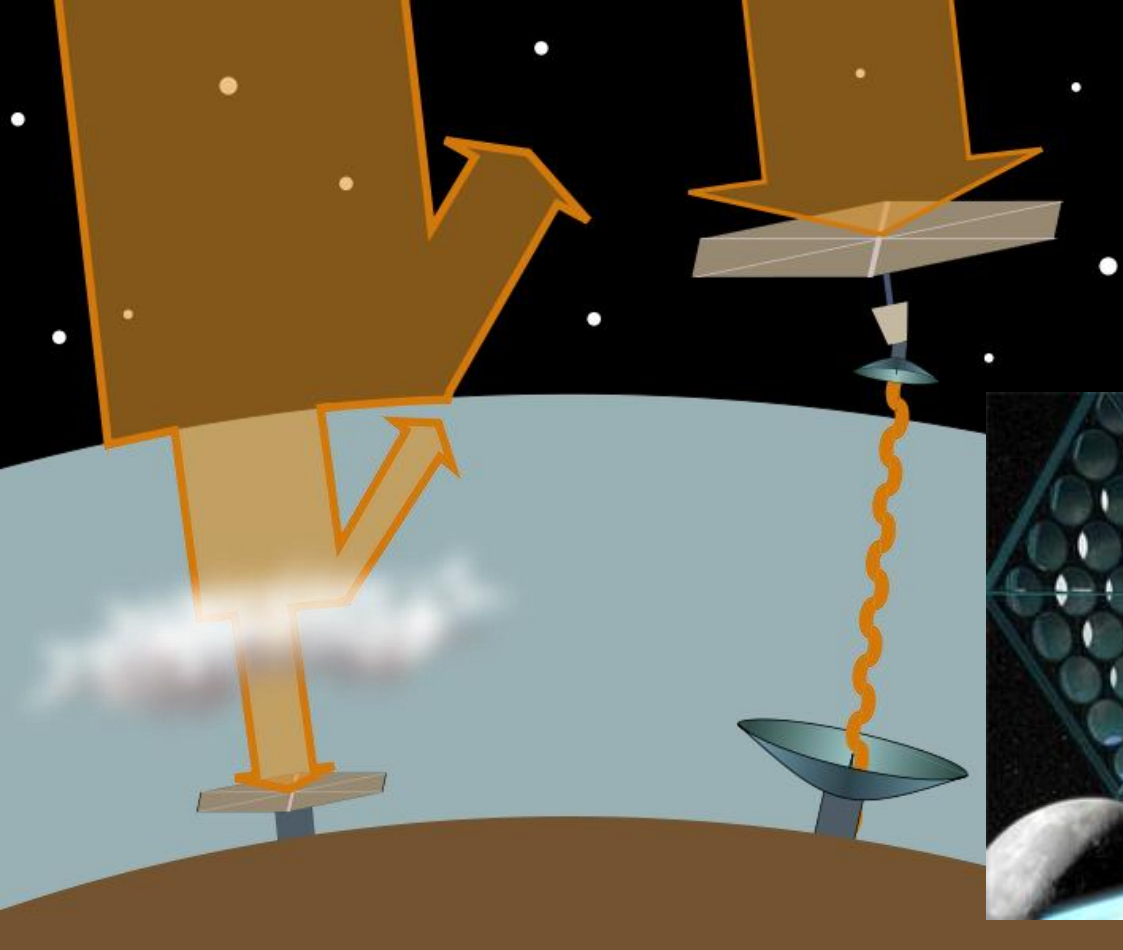


Solar plane, flying at the altitude of 12,000 ft. with a speed of 50-60 mph for 12 hours.









**Left:** Part of the solar energy is lost on its way through the atmosphere by the effects of reflection and absorption. **Right:** Space-based solar power systems convert sunlight to microwaves outside the atmosphere, avoiding these losses