



California Sunlight Solar Chargers- Frequently Asked Questions

1) How long does it take to charge the solar charger with a USB port from my computer?

Yes, you can charge the devices using your computer. The solar charger has two types of ports. One is the mini-USB port for input. You connect that port to your PC or wall plug. The regular USB port is the output and goes to your phone. A guide for charging the Vehicle Window Solar Charger (shown above) is as follows:

PC output	Time needed for charging
0.5 amp	12 hours
1.0 amp	6 hours
2.0 amp	3 hours

2) **What about charging from the sun?** It depends on the circumstances- like weather and time of day. A good measure would be 8 hours in full sun for charging the Vehicle Window Solar Charger. It will charge through a window as well but may take longer time to be fully charged.

3) **Why would we charge with our PC?** For your convenience. We always recommend the sun, but there may be times when it is more convenient for you to use a PC to charge the solar charger.

4) **How many charging cycles can we expect from the CA Sunlight devices?** Let's define a charging cycle as charging the battery from 0% to 100% and then discharging it to 0%. These devices will have a minimum of 500 charging cycles. The way we work with our devices would probably have you re-charging at 30 or 40 percent. That would make the battery last much longer.

5) **The charging seems slow at the beginning.** Why is this happening? There is a chip in the device that regulates the rate of charging. It works to ensure the optimal performance of the battery. Here's how it works:

Percent of charge	Rate of charge
0-10%	Slow (to protect the battery)
11-90%	Normal (PC charging rate)
91-100%	Slow (to protect the battery)

Please try not to discharge the battery to 0%. Recharge the battery with sunlight or PC whenever it is possible.

6) What is the working temperature of your solar charger?

It is between -10 °C and 60 °C. That is 14 °F – 140 °F. Please do not exceed 60 °C (140 °F). On a hot summer day, the dashboard temperature of your car may be over 140 °F.

7) Can I completely drain the solar charger to 0% full?

We strongly suggest you begin recharging your solar charger before the battery is less than 25% full (One light illuminated). Although all these solar chargers have discharge protection, maximum performance and fast charging are achieved and maintained when you avoid completely depleting the battery to zero.

There may be circumstances that you need all the energy the solar charger can supply. No problem to drain the battery to 0% full. But it will take much longer to recharge it.

8) Do I have to completely discharge battery to reduce the memory effects?

The batteries in these solar chargers do not have charging memory. You do not need to empty them every time to achieve maximum performance. In fact, it is better for the battery if it is not drained down to 0% full.

9) Is that possible the solar charger is getting energy from my phone instead of charging it?

No, it is not possible. The solar charger has two types of ports. One is the mini-USB port for input. You connect that port to your PC or wall plug. The regular USB port is the output and goes to your phone. The solar charger, the included cable, and the cable comes with your phone are designed to have the solar charger send energy to your phone. Not to drain energy from the phone.

10) How do I know the sunlight is charging the solar charger?

If the green LED light is on, that means the solar panel is converting sunlight into electricity and charging the battery. For the Vehicle Window Solar Charger and the Folding Panel Solar Charger, the four battery indicators will be off during charging by sunlight or other light.

11) What kind of protection do you have in these solar chargers?

There are short-circuit protection, over-charging protection, over-discharging protection.

12) Do you offer any warranty?

We are so sure you'll be happy with our solar chargers that we offer a "90-Day Money-Back Guarantee" to ensure customer satisfaction of our products.

In addition, we guarantee "1-Year Full Replacement" on any product failure as a result of our manufacturing, materials, or shipping.