

# Photovoltaic panel connected to OBD



## Overview

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With a single diode, an off-the-shelf 10W solar panel can be converted for use with a car's OBD-II port - trickle-charging the battery. (📄: Kerry Wong).

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### Photovoltaic Cell

A photovoltaic (PV) cell, commonly known as a solar cell, is a device that directly converts light energy into electrical energy through the photovoltaic effect.

### What Are Photovoltaics? (2026) , ConsumerAffairs(R)

Photovoltaic technology lets you generate electricity from a renewable source: the sun. Unlike traditional methods of electricity generation, which often rely on fossil fuels, photovoltaics



### [Kerry Wong Turns to the OBD-II Port for a Reliable.](#)

Software engineer Kerry Wong has created a solar trickle charger designed to keep a parked car's battery topped up - using a simple connection to the OBD-II port

### Photovoltaics (PV)

Photovoltaic systems work by utilizing solar cells to convert sunlight into electricity. These solar cells are made up of semiconductor materials, such as silicon, that absorb photons from



### [A review of solar photovoltaic technologies: developments, challenges](#)

Solar photovoltaic (PV) technology has emerged as a key renewable energy solution, yet its widespread adoption faces several technical and economic challenges.

### 12v charging

I use a small solar panel laid on the dashboard to keep the 12v battery happy. It is connected via OBD socket (pins 16 & 4) If I leave it



### [SP-12 SolarPulse Charger/Maintainer OBD-A - PulseTech](#)

This charger can be installed and removed in minutes. The solar panel replaces the normal power loss from electrical accessories that occurs in seldom-used

### OBDII Power Cable For Solar Panels

It provides a permanently 'On' link between a solar panel and your battery for long term battery maintenance. Order before 2pm for next working day delivery via



### Solar Panel Keeps Car Battery Topped Off Through

So he chose to connect his solar panel directly to the OBD-II port, the spec for which calls for an always-on, fused circuit connected directly to the

### Solar Photovoltaic: Everything You Should Know

What is a solar photovoltaic (PV) system? A solar PV system is a technology that converts sunlight directly into electricity using the photovoltaic effect.



### Solar PV Energy Factsheet

Solar energy can be harnessed two primary ways: photovoltaics (PVs) are semiconductors that generate electricity directly from sunlight, while solar thermal technologies use sunlight to

heat water for

**Photovoltaics , Department of Energy**

Photovoltaic (PV) technologies - more commonly known as solar panels - generate power using devices that absorb energy from sunlight and convert it into electrical energy through semiconducting



[Would this Solar Battery Trickle Charger with OBD-II](#)

Using the OBD-II connector should be safe, as it's designed for diagnostics. If you're uncertain about compatibility or installation, I'd recommend

**Photovoltaics and electricity**

A photovoltaic (PV) cell, commonly called a solar cell, is a nonmechanical device that converts sunlight directly into electricity. Some PV cells can convert artificial light into electricity. Sunlight is composed



**Photovoltaics**

Photovoltaics (PV) is the conversion of light into electricity using semiconducting materials that exhibit the photovoltaic effect, a phenomenon studied in physics, photochemistry, and electrochemistry. The

[How Do Solar Cells Work? Photovoltaic Cells Explained](#)

The conversion of sunlight, made up of particles called photons, into electrical energy by a solar cell is called the "photovoltaic effect" - hence why we refer to solar cells as "photovoltaic", or PV





### Use a solar panel to keep your car battery charged

Luckily, there is an alternative: a solar panel that can be plugged into the vehicle's diagnostic socket (OBD). They're readily available, inexpensive and many come

[BATTERYcharge SOLAR Cable OSPOBD , OSRAM Automotive](#)

Modern vehicles have a small but constant battery drain.



[4 Watt, 12-Volt Solar Battery Trickle Charger with OBD](#)

Trickle charge your vehicle's 12V battery with the Sunforce 4W Trickle Charger with OBD-II Connector. What type of batteries can this solar panel trickle charge?



### battery charger

The OBD II socket is a terrible place to do that. While it does have always-hot power available, it is intended for a tiny amount of power for test equipment such as OBD II scanners.



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