

Photovoltaic panel connected to OBD



Overview

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).

Photovoltaic panel connected to OBD



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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