



# Charge controller in solar system

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A solar charge controller manages the power going in and out of the batteries in a solar power system. It does this by regulating voltage and current.

It stops your batteries getting overcharged by controlling the flow of energy from your solar panels.

It also stops the reverse flow of power, which can drain and damage the battery bank, from your batteries to your solar panels.

Newer models allow you to remotely monitor this from your phone via the internet.

Aside from preventing overcharging and draining of a battery, charge controllers perform other functions as a battery management system.

Over time, this degrades the whole battery bank. A charge controller prevents this from happening.

Charge controllers also:

If you want to have batteries as part of your home solar system, you're going to need a charge controller. The chief function of a controller is to protect your batteries.

Since batteries are the most expensive part of a solar power system, you want to protect your investment.

Unlike batteries or inverters that have several types, controllers are much simpler in that you have two options to choose from. You either go MPPT or PWM.

MPPT controllers take the maximum power from a solar array, regardless of the battery's required voltage, and deliver that to the battery bank.

They can do this because, unlike PWM controllers, they can reduce or step down the solar arrays' voltage to the battery's voltage.

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