

Solar power generation can only light up one lamp



Overview

Yes, a solar generator can power light bulbs, and in many situations, it offers more flexibility than standalone solar-powered bulbs. Solar-powered light bulbs are a popular way to illuminate your garden pathways, walkways, or landscaping during the night. [Vijay Deshpande] shows how to make a lamp that draws only the power it needs from the mains. It still works if the mains is down, assuming the solar power supply is still able to power the lamp. In addition. ELI5: Why can't a light bulb that is powered by a solar panel be used to charge that same solar panel?

Aside from the initial amount of energy needed why can't this closed loop go on for ever?

Does sunlight have a defining quality that LEDs and other unnatural lights don't?

Archived post. Under LED/incandescent lights (100-1000 lux), a 100W panel may produce 1-5W.

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[Solar Powered Light Bulbs: Can Solar Generator Power Light Bulbs](#)

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[Photovoltaics and electricity](#)

When the sun is shining, PV systems can generate electricity to directly power devices such as water pumps or supply electric power grids. PV systems can also charge a battery to provide ...



[Can solar panels be powered by lights?](#)

Production manager Lao Zhang banged the table: "If these damn lights can generate power, why bother making PV modules?" This traces back to the photovoltaic effect. When photon ...



[Photovoltaics and electricity](#)

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[How solar panels light up light bulbs , NenPower](#)

Various types of solar panels exist, each with different efficiency levels that can significantly affect the amount of electrical energy produced and ultimately how many bulbs can be ...



How Does Solar Work?

Below, you can find resources and information on the basics of solar radiation, photovoltaic and concentrating solar-thermal power technologies, electrical grid systems integration, and the non ...



[Solar Energy Explained Simply](#)

Solar lights are made up of four main components: the solar photovoltaic (PV) panel, battery, control electronics and the light fixture. When the sun is out, a solar panel takes the light ...



[Solar Light? Mains Light? Yes!](#)

[Vijay Deshpande] shows how to make a lamp that draws only the power it needs from the mains. The circuit uses DC operation and does not feed power back into the electric grid. It still ...



Solar energy

Since solar cells obviously cannot produce electric power in the dark, part of the energy they develop under light is stored, in many applications, for use when light is not available.

[ELI5: Why can't a light bulb that is powered by a solar panel](#)

Incandescent light bulbs convert 11% of electrical power input into light. Photovoltaic panels convert no more than 33% of the light that falls onto them into electric power. So, the light from 25 light bulbs is ...



[Solar Panel For Lamp: Lighting Explained](#)

Most solar lamps are designed to provide sufficient light output to enhance safety and visibility in outdoor spaces, such as gardens, pathways, and driveways. They come in various designs, styles, and ...

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