



LLSE CONTAINERS

Solar outdoor solar energy on-site energy without electricity but with internet





Overview

Can you run appliances on direct solar power?

That often gives you two options to run such appliances on direct solar power. You can either fit a DC-DC converter or modify the appliance by bypassing the electronics. Most direct solar power applications operate at low voltage, so you can safely do it yourself. Low-tech Magazine will soon publish a manual on this.

Why is direct use of solar power important?

Moreover, direct use of solar power avoids the charging and discharging losses caused by batteries, or the energy losses in the transmission infrastructure for grid-connected systems. Both have to be offset by additional solar panels.

Can solar panels be used without backup infrastructure?

Using solar panels without backup infrastructure makes renewable energy production much more affordable, efficient and sustainable. Image: a laptop running on direct solar power. Photo: Marie Verdeil. Subscribe to our newsletter. Read Low-tech Magazine offline.

Who is a pioneer of direct solar power?

To answer that question, we look at a pioneer of “direct solar power”: the Living Energy Farm. This environmental education community in the US state of Virginia is completely “off-the-grid” thanks to solar power, but only 10% of the solar power generated passes through a (nickel-iron) battery.



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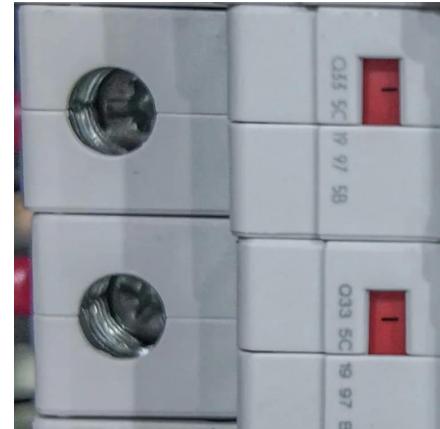
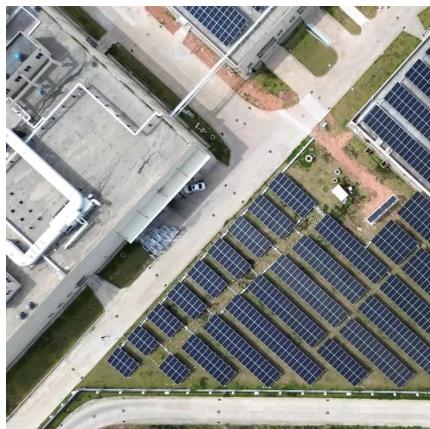
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[Off Grid Solar System: how it works and the main advantages](#)

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[Off Grid Solar Energy System Guide 2025 , Power Solution](#)

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