



Outdoor photovoltaic solar panel steel frame

Why do you need a steel frame for a solar module?

Replacing aluminum frames with Origami Solar's patented, roll-formed steel frame improves the performance of the entire module by protecting module glass and solar cells from damage. Higher performing Origami steel frames reduce installation breakage and cell cracks that reduce energy production and increase O&M costs over the life of a project.

Which material should a solar panel be made of?

For ground-mounted solar panels, the material choice is less critical. Both aluminum and steel can support the panel weight, but aluminum makes future setup adjustments easier. Unless your solar panels will be exposed to severe weather conditions, aluminum is the preferred choice. What Are Solar Panel Frames Made of?

Are origami solar solar panels green?

The company reports that the frames are made of "green" recycled steel, thereby reducing greenhouse gases by up to 93%, representing a reduction of 80 kg per module or 200 metric tons per MW. Origami Solar was founded by Eric Hafter and Jack Patton to try to bring innovation and cost reduction to solar module production.

Is recycled steel a good choice for solar panels?

Recycled steel produces even less GHGs. "Our Gen 2 frames are lighter, stronger and ideally suited to provide superior support to the new large-format modules coming to market," said Gregg Patterson, CEO of Origami Solar.

Is aluminum better than steel for solar panels?

According to Origami Solar, using aluminum for module frames contributes more than ten times the greenhouse gas (GHG) emissions than its steel frames. The company said emissions are 14 kg of per 1 kg of aluminum, whereas steel production results in about 1.2 kg of GHGs for every 1 kg of steel. Recycled steel produces even less GHGs.

Should solar developers switch from aluminum to steel frames?

For an industry committed to delivering clean energy, the switch from aluminum to steel frames delivers a dramatic decarbonization benefit and is the obvious procurement choice for solar developers and investors.

Origami Solar, developers of a patent-pending steel frame for solar modules that won the American Made Solar Prize in 2022, announced its Gen 2 steel module frame, with production samples ready for evaluation and ...

Combined with the patented Super Purlin, our solar frames require fewer parts, use 40% less material



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compared to traditional Cee Purlin construction and never require crews to leave the ...

Since 1996, Solar Electric Supply has supplied the finest solar panel mounts from reputable manufacturers. Whether a solar roof mount, ground mount, top of pole mount, side of pole ...

Download Origami Solar's latest presentation covering the evolution of steel solar module frames. Take a look at durability results, benefits of a domestic supply chain, and how recycled steel ...

The United States is forecast to install nearly 100 gigawatts of new solar power capacity within the next five years, a growth rate of 42%. And the worldwide market for installed solar is projected to surpass \$200B by 2027. This installed ...

Maximizing Energy Efficiency with Solar Panels on Metal Buildings. Solar panels, also known as photovoltaic (PV) panels, collect energy from the sun and turn it into electricity. Because of an ever-increasing focus ...

An independent study commissioned by Origami Solar and conducted by Boundless Impact Research & Analytics found that U.S.-made recycled steel module frames show a 90.4% reduction in greenhouse gas ...

The Big Kahuna Solar-ready Pergola Kit comes standard with: 6" x 6 posts; Double 2" x 10 beams; 2" x 8 rafters; 2" x 6 angle braces; 2" x 2 top slats; Two 2" x 8 bearing boards to support a solar rack ...

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In the photovoltaic (PV) solar power plant projects, PV solar panel (SP) support structure is one of the main elements and limited numerical studies exist on PVSP ground ...

Module frames could be that next big opportunity to reduce costs. Origami Solar, developer of a patent-pending steel solar module frame, has advanced to the semi-final round of the U.S. Department of Energy's ...

Steel frames reduce the carbon footprint of a single megawatt of solar by ~190 metric tons. Moving to steel frames will be a huge win for the industry in terms of climate benefits and public...

The Chinese company reinforces its steel frame with a corrosion-resistant zinc-aluminum-magnesium coating to improve strength, cosmetics and lifespan. According to spec ...



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Origami Solar is the developer of a patent-pending steel solar panel frame that is transforming the solar industry through high-speed domestic production, reduced material and manufacturing cost, and dramatically lower ...

About Origami Solar. Origami Solar is the only developer of an innovative steel solar panel frame that is transforming the solar industry with a transparent, domestic recycled ...

Applications of Solar Panel Frames. Whether you should opt for steel or aluminum primarily depends on the placement of your solar panels. For rooftop solar installations, aluminum is the superior choice. Weight is the ...



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