

Tesla Solar Roof Power Output

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The Reality Check: What's the Actual Power Output?

Let's cut through the marketing haze. Tesla claims their Solar Roof can generate 70-80 watts per square foot, but wait - that's under ideal lab conditions. In my neighbor's Austin installation last month, the energy output averaged closer to 58 watts/sq.ft. during peak hours. Why the gap? Well, roof angles, tree shading, and that Texas heat playing spoiler.

Here's the kicker: A standard 2,000 sq.ft. roof in Southern California could produce about 12-14 kWh daily. But what if your home's in Seattle? You might see 30% less generation. The real magic happens when you pair this with Powerwall - Tesla's system stores excess juice for those cloudy days.

Solar Tiles vs. Traditional Panels: Why Wattage Isn't Everything

You know how people obsess over smartphone specs but forget real-world performance? Same story here. Traditional panels boast higher peak wattage, but Tesla's integrated design:

Eliminates dead space between panels Works better in diffuse light conditions Maintains efficiency longer (degradation rate

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