ContainerPower Energy Solutions

Distributed solar module prices

Overview

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Residential system sizes have risen steadily over the past two decades, reaching a median of 7.4 kW in 2023. System sizes have grown nearly in lock-step with PV module efficiencies, as shown in the left-hand panel of Figure 1. Higher module efficiencies allow for more PV capacity, as residential.

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The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW.

Average module prices in the US distributed sector hit a high of US$0.28/W in May. Image: Anza. The average price of solar panels used in distributed generation projects in the US increased from US$0.25/W at the start of the year to a high of US$0.28/W in May, before settling at US$0.27/W at the. Does AD/CVD increase solar module costs?

The AD/CVD case on solar cells and modules from Cambodia, Malaysia, Thailand and Vietnam, which began in April 2024 and was finalized on May 20th, 2025, increased module costs by 13% year-over-year across the distributed generation segments.

What is PV system cost model (pvscm)?

In the PV System Cost Model (PVSCM), the owner’s overnight capital expense (cash cost) for an installed PV system is divided into eight categories, which are the same for the utility-scale, commercial, and residential PV market segments: Module – The cost to the installer of photovoltaic modules, as delivered.

When will BC module prices be added in Eurpoe?

In Eurpoe, the public pricing for BC modules (residential and C&I) will be added from June 2025. InfoLink Consulting provides weekly updates on PV spot prices, covering module price, cell price, wafer price, and polysilicon price. Learn about photovoltaic panel price trends and solar panel costs with our comprehensive market analysis.

How much solar capacity did the residential segment install in Q2 2025?

In Q2 2025, the residential segment installed 1,064 MW dc of solar capacity, declining 9% year-over-year and 3% quarter-over-quarter. High interest rates, economic and policy uncertainty continue to be significant challenges for the segment.

How much power does a monofacial solar module produce?

Each module has an area (with frame) of 1.9 m 2 and a rated power of 400 watts, corresponding to an efficiency of 21.1%. The monofacial modules were assembled in the United States in a plant producing 1.5 GW dc per year, using n-type crystalline silicon solar cells produced in Southeast Asia.

Why did PV system costs increase in Q2 2025?

PV system costs increased in Q2 2025 following the Trump administration’s implementation of 10% baseline tariffs in April 2025. While a 90-day pause on reciprocal tariffs was announced, the baseline tariffs remained in effect and contributed to price increases across solar market segments.

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