

# Prices of p-type and n-type solar modules





## Overview

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Most P-type and N-type solar cells are the same, featuring slight and very subtle manufacturing differences for N-type and P-type solar panels. In this section, you will learn about the difference between these two.

How much does a PV module cost in China?

According to price analysis firm InfoLink: “Since March, the spot price of n-type modules in China has soared from RMB0.7/W to RMB0.73/W. Quotes from leading manufacturers are approaching the RMB0.75/W mark.” The results of the China Datang Group’s 2025-2026 PV module framework. Image: Datang.

How much will PV modules cost in 2025?

On 11 March 2025, the results of the China Datang Group’s 2025-2026 PV module framework purchase tender were announced, with the spot price of n-type modules increasing from RMB0.7/W (US\$0.097/W) to RMB0.73/W (US\$0.1/W), and some modules priced as high as RMB0.75/W (US\$0.11/W).

What are p-type solar panels?

P-type solar panels are the most commonly sold and popular type of modules in the market. A P-type solar cell is manufactured by using a positively doped (P-type) bulk c-Si region, with a doping density of  $10^{16} \text{ cm}^{-3}$  and a thickness of  $200\mu\text{m}$ .

Are n-type solar panels better than P-type?

N-type solar panels currently have achieved an efficiency of 25.7% and have the potential to keep on increasing, while P-type solar panels have only achieved an efficiency of 23.6%. Manufacturing costs represent one of the few disadvantages of N-type solar panels.



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Competition, oversupply to reduce n-type solar module prices

May 20, 2024 · Competition, oversupply to reduce n-type solar module prices Global solar demand will continue to grow in 2024, with module demand likely to reach 492 GW to 538 GW.

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Module prices rise: P-type hits 0.85 CNY, n ...

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Comparison of P-Type and N-Type PV Module Technology ...

Feb 25, 2025 · The development of these technologies heavily relies on advanced solar panel manufacturing machines, which play a critical role in determining efficiency, cost, and ...

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PV Price Watch: China's module prices reach ...

Mar 14, 2025 · China's latest tender results show the spot price of n-type modules increasing from RMB0.7/W to as much as RMB0.75/W.

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N-type Solar PV Panel Market

N-type solar PV panels are closing the price gap with PERC modules as manufacturing scale accelerates and wafer utilization improves. While PERC dominated 75% of global installations ...

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Module prices rise: P-type hits 0.85 CNY, n-type crosses 0.9 ...

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N-type Solar Panel Pricing Trend

Sep 21, 2024 · Future Pricing Outlook for N-type As production of N-type solar cells and panels continues to scale up, the costs are expected to decline significantly. According to a study ...

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P-Type and N-Type Cell Prices Near Lows; Supply-Demand ...

Jul 25, 2024 · However, the outlook for overseas orders remains uncertain. Production Outlook: In August, module production is expected to experience some fluctuations, as manufacturers ...

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PV spot price

2 days ago · 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 ...

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Competition, oversupply to reduce n-type ...

May 20, 2024 · Competition, oversupply to reduce n-type solar module prices Global solar demand will continue to grow in 2024, with module demand ...

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N-Type vs. P-Type Solar Panels: An In-Depth to Both ...

Jul 6, 2022 · Since N-type solar panels have so many advantages, some manufacturers and customers opt to ignore the higher N-type solar panels price to produce modules, which is ...

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