

## Kongres Container

# Current price of monocrystalline silicon for solar modules



## Overview

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The average transaction price for n-type G10L monocrystalline wafers reached RMB1.05 per piece, surging 22.09% week-on-week; n-type G12R monocrystalline wafers averaged RMB1.15 per piece, up 15% from the previous week; and n-type G12 monocrystalline wafers averaged RMB1.35 per piece, posting a 13.45% week-on-week increase. How are PV solar cell silicon wafer mono price developments calculated?

The price developments are expressed as a price index in US\$ prices converted at current FX rates, which are the FX rates applicable at the time the price was valid. PV Solar Cell Silicon Wafer Mono price index developments are calculated from multiple separate sources of data to ensure statistical accuracy.

What is the difference between monocrystalline and polycrystalline solar panels?

Monocrystalline solar panels cost 0.90–1.20 per watt, offering 18–22% efficiency due to pure silicon, while polycrystalline panels are cheaper at 0.70–1.00 per watt but less efficient (15–17%). Monocrystalline lasts 25–30 years with 0.3–0.5% annual degradation, whereas polycrystalline degrades 0.5–0.8% yearly.

Is n-type silicon going up in 2025?

Weekly Overview On Prices For Polysilicon, Wafers, Cells, Modules & Solar Glass The TaiyangNews PV Price Index recorded an upward movement in prices for some upstream products in Calendar Week 2 of 2025. n-type silicon was up 3.7% from CW1, just 3 weeks after registering an increase in CW51/2024.

How much does non Xinjiang polysilicon cost?

Currently, non-Xinjiang polysilicon with traceability data generally carries a quoted premium of RMB 3–5/kg. Polysilicon prices in dollar terms are prices for polysilicon with non-China origins in dollar terms, not translated from RMB

prices.

Why is monocrystalline so expensive?

The result was the entire batch of 128 silicon rods being scrapped, with direct losses equivalent to buying a top-tier Model S. Behind this incident lies the core secret of why monocrystalline is expensive: cost control is even more demanding than manufacturing chips.

Are polycrystalline wafers cheaper than monocrystalline?

Just opening the Bill of Materials (BOM) from a TOP5 manufacturer revealed something striking—their 2023 polycrystalline wafer purchase price was actually 18% lower than monocrystalline. The answer lies in the casting furnaces.

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