

## Solar Storage Container Solutions

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



## Overview

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How much does a resale solar module cost?

For example, N-Type modules by REC listed for resale in May and July pushed up weighted average prices to \$0.411 and \$0.460 respectively. P-Type modules in September increased to \$0.311 as modules by Sirius PV, Solar4America, and Panasonic were remarketed. The same price increase was present in P-Type Bifacials for the month of December.

What is the PV module price index?

The PV Module Price Index tracks wholesale pricing and supply of crystalline-silicon modules that have fallen out of traditional distribution channels, and as a result are listed for resale on the EnergyBin exchange.

Do PV modules lose resale value?

For historical secondary market PV module pricing from 2020 through 2023, download the 2023 PV Module Price Index from EnergyBin's Resources portal. Overall, the price index shows that new PV modules don't tend to lose resale value in the U.S. secondary market unless their technology is older, such as Legacy POLY modules.

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.

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  $200\mu\text{m}$ .

What makes p-type and n-type solar cells different?

To summarize, the main aspect that makes P-type and N-type solar cells different is the doping used for the bulk region and for the emitter.

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

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

Jul 25, 2024 · The price gap between P-type and N-type cells of all sizes is narrowing, with mainstream prices for P-type M10 and G12 at 0.29 RMB/W. Similarly, mainstream prices for N ...

### Solar Module Technology Comparison: N-type vs PERC vs ...

...

Feb 26, 2025 · I. Introduction Solar photovoltaic (PV) technology has evolved significantly over the years. Understanding the differences between N-type, PERC, and Thin-film solar panels helps ...



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

Feb 25, 2025 · PV module technology routes are mainly divided into two categories: P-type and N-type. There are significant differences between the two in terms of material properties, ...

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

Feb 28, 2024 · Since mid-January, there's been a steady rise in polysilicon costs, especially for n-

type materials, leading to talks of an imminent increase in ...



## n-Type Crystalline Silicon Photovoltaics: Technology, ...

Most solar cells currently in commercial use are p-type solar cells, due to their historically lower cost and ease of manufacture compared to n-type solar cells. However, due to improved ...

## TrendForce: Prices of P-type Modules Drop ...

Jul 5, 2023 · In terms of N-type module bidding prices, the manufacturing costs of N-type modules decreased, resulting in a slight decline in prices. According to ...

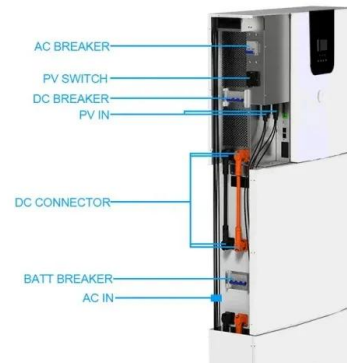


## N-type solar cells: advantages, issues, and current scenarios

Jul 5, 2017 · With the increasing market share of n-type wafers and the obtainability of n-type modules at suitable price levels, a higher awareness among product users about the LID issue ...

## The difference between n-type and p-type solar ...

Jul 2, 2018 · The main difference between p-type and n-type solar cells is the number of electrons. A p-type cell usually dopes its silicon wafer with boron, ...



## Differences between P-type photovoltaic modules and N-type

Jan 26, 2024 · The biggest difference between P-type photovoltaic modules and N-type photovoltaic modules lies in the differences in raw material silicon wafers and battery ...

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

Jul 25, 2024 · Consequently, N-type cell prices are likely to rebound first once downstream production resumes. Module: The mainstream concluded price for 182mm facial mono PERC ...



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