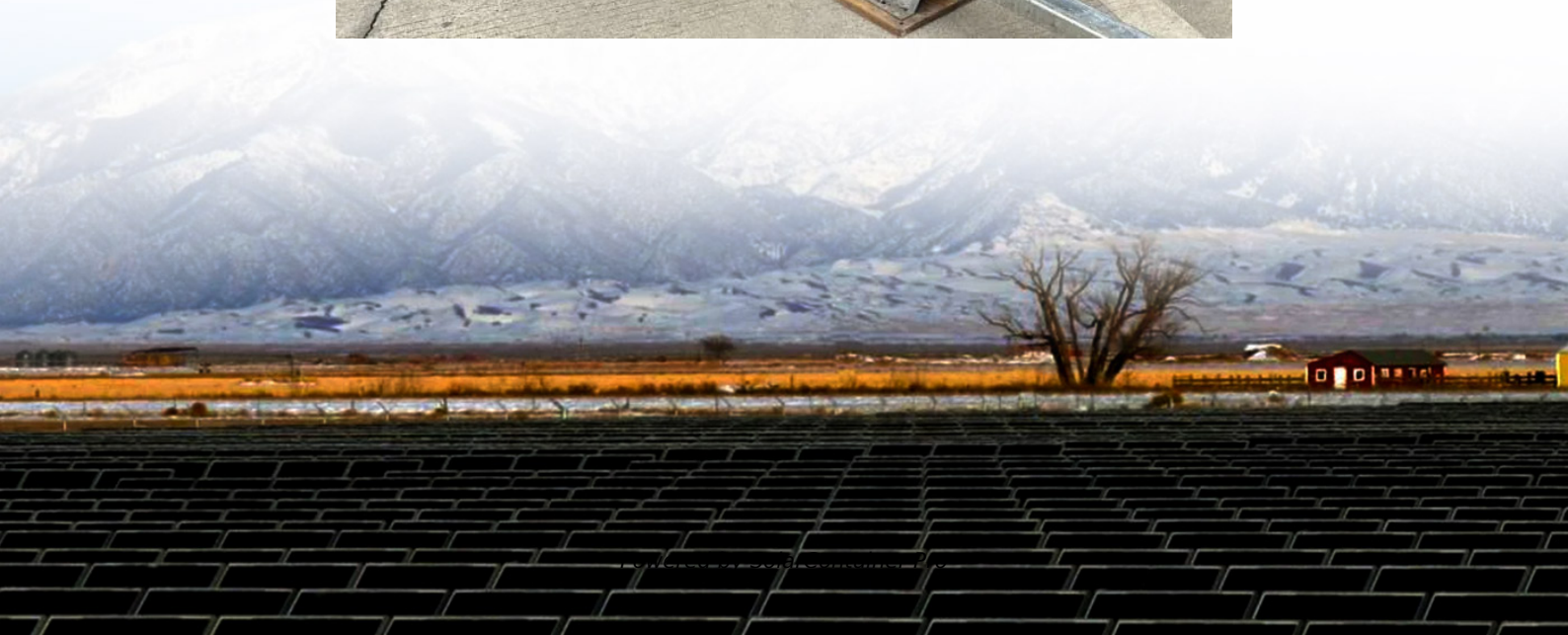


# 182 silicon wafer solar panel





## Overview

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How big is a 182mm silicon wafer compared to a 166MM wafer?

Based on the above analysis, and considering the limitation of module size and weight, the classical half-cut module design is still adopted, and the side length of the 182mm silicon wafer can be deduced. The area of a 182mm (M10) wafer is  $330.15\text{cm}^2$ , 20.4% larger than that of a 166mm (M6) wafer of  $274.15\text{cm}^2$ .

What is the production capacity for 182mm wafer size modules?

By the end of 2021, LONGi, Jinko and JA will each establish at least 30GW of production capacity for 182mm cells and modules. Total capacity for 182mm wafer size modules for the whole industry will be more than 100GW. The first batches of 182mm wafer size modules have been mass-produced and supplied during Q4 in 2020.

What wafer size is suitable for solar panels?

While the PV industry's mainstream wafer size remained stable at 156.75mm for several years, new sizes of G1 (158.75- $\phi$ 223mm) and M6 (166- $\phi$ 223mm) then emerged. On the one hand, these slightly larger wafer sizes were compatible with existing cell and solar glass production lines to enable immediate cost savings.

Should silicon wafers be square?

The wide range of innovative rectangular sizes has taken the industry by surprise. When Trina Solar launched its new silicon wafer product "210R" in April 2022, the rectangular silicon wafer was made public for the first time, and the decades-old thinking in the PV industry that silicon wafers should be square was completely dismantled.

Why are rectangular silicon wafers so popular?

The reason for the rapid popularity of rectangular silicon wafers in the short



term is simple: firstly, technology has improved, followed by the system value brought by the increase in module power, and significant supply chain value.



## 182 silicon wafer solar panel

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### **182 Monocrystalline Bifacial PERC Solar Cell S18210BB023**

Physical Characteristics Substrate material P-type mono-crystalline silicon wafer-PERC Cell thickness  $160\text{mm} \pm 16\text{mm}$  Dimension  $182\text{mm} * 182\text{mm} \pm 0.5\text{mm}$  Diagonal  $247\text{mm} \pm 0.5\text{mm}$

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### **High Efficiency Monocrystalline Silicon Solar Cell 182mm Wafer**

High Efficiency Monocrystalline Silicon Solar Cell 182mm Wafer Our advanced solar technology presents internal friction reduction with a half-piece design, slashing friction by a quarter. ...

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### **Rectangular module: Trends and prospects -Industry-InfoLink ...**

As of now, there are still various sizes of wafer and module on the solar market. It's also worth noting that most manufacturers plan to adopt  $182.2 * 191.6\text{mm}$ , G12R and G12 ...

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### **Canadian Solar 182 Plus TOPCon Module Technology White ...**

The CSI 182 Plus TOPCon modules utilize N-type silicon wafers with extended minority carrier lifetimes, coupled with the implementation of





advanced tunnel oxide passivating contacts ...

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### Recovery of porous silicon from waste crystalline silicon solar panels

A low-cost and easy-available silicon (Si) feedstock is of great significance for developing high-performance lithium-ion battery (LIB) anode materials. Herein, we employ ...

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### New module trend 2022: 182mm VS 210mm Module

With the continuous updating of larger wafer size solar cells, bigger size and higher efficiency PV modules are researched and produced by many solar manufacturers using 210 mm or 182 mm ...

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### A new era: Say goodbye to 182 and align with 210, ...

From the confrontation between 182 and 210 in 2020 to the gradual realization of sub-format and small-scale size standardization in the past two years, this round of size ...

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## JA Solar Releases its Next Generation Module DeepBlue 4.0 Pro

JA Solar today released its new n-type module DeepBlue 4.0 Pro at SNEC 2023. Based on a new size of next-generation rectangular silicon wafer, the module is capturing the ...

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## 182mm PV Silicon Wafer Future Forecasts: Insights and Trends ...

The 182mm PV silicon wafer market is experiencing robust growth, driven by increasing demand for high-efficiency solar panels. The larger wafer size allows for improved ...

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## Hot Sale 182\*182 10bb Perc Mono Bifacial Solar Cell Silicon Wafer ...

Hot Sale 182\*182 10bb Perc Mono Bifacial Solar Cell Silicon Wafer For Solar Panels, Find Complete Details about Hot Sale 182\*182 10bb Perc Mono Bifacial Solar Cell Silicon Wafer ...

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## New trend in PV cells: rectangular silicon wafers (182R & 210R)

Now, with the wafer size temporarily reached a consensus in 182mm and 210mm, the wafer link cost reduction and efficiency began to find a breakthrough again, focusing on "rectangular" ...

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### [The Remerging Battle Between 182 And 210: What Modules](#)

Following the silicon wafer size controversy in the first half of the year, the mass production controversies of Longi, Jinko Solar, and JA Solar surrounding 182 modules have ...

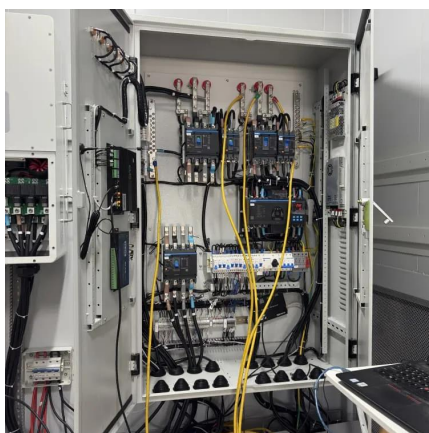
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### [A new era: Say goodbye to 182 and align with 210. ...](#)

This year, in 2020, LONGi Green Energy launched 182 silicon wafers and modules, and on June 24 of this year, it issued a "Joint Initiative on Establishing Standard Sizes for the ...

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### **182mm vs 210mm Silicon Wafer Solar Panel Technology Route ...**

In June, giants like LONGi, JinkoSolar, and JA Solar shook hands on the "Joint Initiative for Photovoltaic Standard Sizes," championing the 182mm silicon wafer.

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### **Silicon 182mm Solar Cell Wafer, China Silicon 182mm Solar Cell Wafer**

Silicon 182mm Solar Cell Wafer Inquiry Inki  
Silicon 182mm Solar Cell Wafer is just a high-quality panel that solar from silicon material. It's made to supply a level is superior of effectiveness, ...

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