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Solar light 18w polycrystalline silicon wafer





Overview

Who makes solar silicon wafers?

CETC Solar Energy is one of the largest manufacturers of solar silicon wafers worldwide. A wide range of mono-crystalline and multi-crystalline solar wafers is manufactured at the plant to meet customer-specific requirements.

How do you make a solar cell from a silicon wafer?

Poly-crystalline silicon wafers are made by wire-sawing block-cast silicon ingots into very thin (180 to 350 micrometer) slices or wafers. The wafers are usually lightly p-type doped. To make a solar cell from the wafer, a surface diffusion of n-type dopants is performed on the front side of the wafer.

Can thin silicon be used to prepare ultrathin silicon wafers?

In this contribution, we present a thin silicon with reinforced ring (TSRR) structure at the edge region, which can be used to prepare ultrathin silicon wafers with a large area and provide support throughout the solar cell preparation process to reduce the breakage rate.

Are textured TSRR wafers suitable for manufacturing silicon solar cells?

To validate the industrial compatibility of TSRR structure, we further prepared textured TSRR wafers and performed some key manufacturing processes for mass production of silicon solar cells based on 182 × 182 mm² pseudo-square wafers with an original thickness of 150 µm which are generally used in industry.



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Light absorbing materials can often be used in multiple physical configurations to take advantage of different light absorption and charge separation mechanisms. Materials presently used for ...

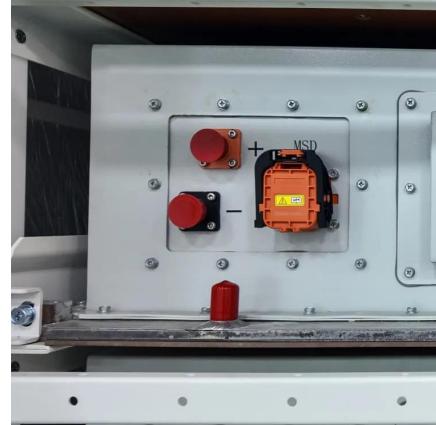


Silicon Wafers

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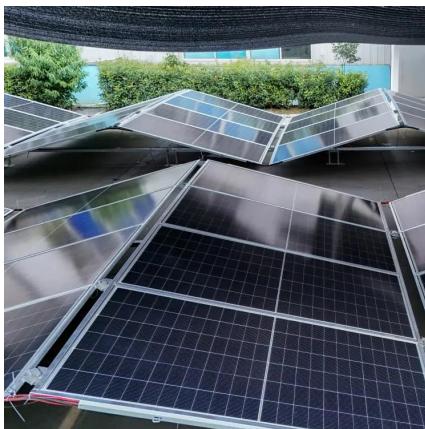
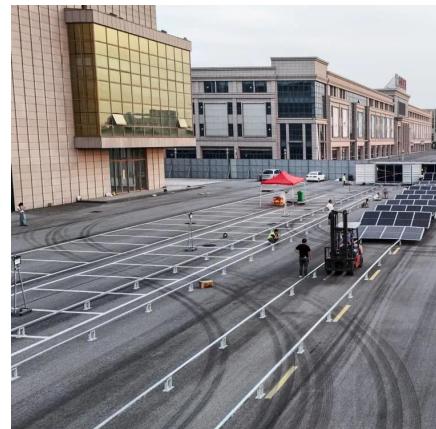


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