

# **The same solar container outdoor power as the one used in the desert**





## Overview

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Is desert-based solar energy a viable solution for sustainable power generation?

Desert-based solar energy has emerged as a promising solution for sustainable power generation. In fact, with a vast expanse of available land and abundant sunlight, hot deserts are arguably one of the best places on earth for solar energy production.

How does solar power work in a desert?

Desert regions are known for their abundance of sunlight, making them ideal for harnessing solar energy. The intense heat and clear skies found in these areas allow for maximum solar radiation, which can be converted into electricity through the use of photovoltaic (PV) panels or concentrated solar power (CSP) systems.

Can a photovoltaic pump well irrigate a desert?

Researchers have found that the desert holds significant underground water resources. Although the water is highly saline, it can be used to irrigate desert and salt-tolerant plants. The company decided to use photovoltaic power to pump water. A photovoltaic-powered pump well can irrigate 2,000 mu of land at a construction cost of 215,000 yuan.

Why do desert areas need a photovoltaic system?

Desert areas benefit from high irradiation levels , and the photovoltaics power potential in these areas exceeds 2100 kWh/kWp . This means only a small area of desert covered by PV modules can potentially cover today's world's need for electricity , and this drives the major installation market to these areas . .



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### Long-term outdoor performance of grid-connected photovoltaic power

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