

The difference between LED solar container outdoor power and indoor power supply





Overview

What is the difference between outdoor and indoor light?

Outdoor power budgets are typically between 5-500mAh (3.7V) per day but can be much higher using a larger solar panel. The second significant difference between outdoor and indoor light is their spectrums. Every light source, such as LEDs, Fluorescents, or the sun, is made up of a different combination of colors.

Do indoor solar panels perform well with no infrared light?

Panels that use these technologies often perform poorly in indoor environments with no infrared light, as seen in the graph below. Indoor optimized amorphous silicon (a-Si) solar cells perform better than traditional high-efficiency solar under a low-intensity LED spectrum.

Can a solar panel be used indoors?

In actuality, indoor lighting can be more than 1,000 times less intense than direct sunlight. That means there's 1,000 times less power available for a solar panel to collect. At light intensities of 50% of direct sun and below, minor material defects and parasitic leakage can quickly reduce the output of a regular solar panel to zero.

Which solar panels are suited for low-power IoT applications?

Our thin-film flexible Indoor Light and Classic Application solar panels are well suited for low-power IoT applications in indoor and outdoor environments. Indoor panels are rated at 200 / 1000 lux and outdoor modules are rated at 25% / 100% sun intensity. Start your evaluation or prototype with our simple to use development kits.



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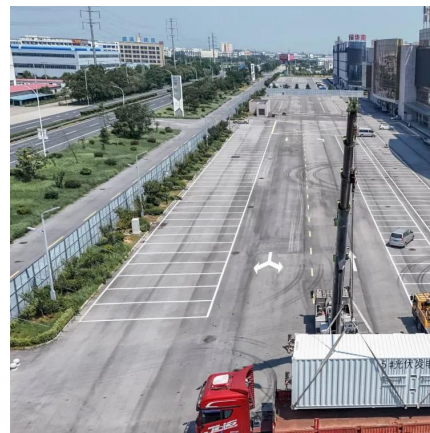


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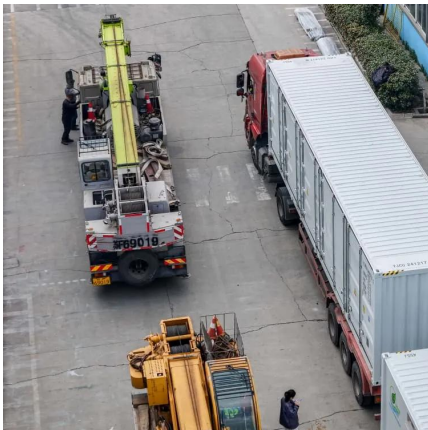
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