Solar cell 480 kWh

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Q CELLS panel shows a high conversion rate that goes over 20.7% with the average numbers on the market being 18-19%. German engineers devised a zero gap cell layout which allows the use of the active surface of a solar panel to full extent.

Q.PEAK features an unorthodox number of cells: 156 half-cut monocrystalline cells instead of 144. Additional cells are what allows the panel to provide 480W of solar power. The panel is slightly longer than standard, but you pay less overall by purchasing high-output modules.

The panels Q CELLS features Q.ANTUM DUO technology which makes the panel retain high output in all kinds of weather. On one hand, it prevents the energy losses at high temperatures, making this model a good choice for hot areas. On the other hand, the panel does well even in low-light conditions -- on cloudy days and in the winter.

Q.PEAK DUO XL-G10.C is protected by standard warranties from Hanwha Q CELLS: 12-year warranty for product and 25-year warranty for performance. The degradation rate of Q CELLS panels is lower than average: a module loses no more than 0.5% of its initial output per year. After 25 years panels are guaranteed to have at least 86% of nominal power.

A solar panel"s power rating is the measurement of the amount of electricity a solar panel will produce. Most solar panels on the market today have a power rating of around 300 to 500 watts.

Solar panel efficiency is a measure of the percentage of the sun"s energy that the solar panel can convert into electricity. Today, many high-quality panels are around 20% efficient or more.

Higher efficiency panels mean you can produce more electricity with the same amount of panels, making them a great option for properties with limited space. However, they also come with a higher price tag.

Solar panels historically came in two sizes: 60-cell and 72-cell. With the current half-cut module technology in use by most manufacturers, this is typically 120-cell or 144-cell today. These represent the number of solar cells in each panel. The larger panels have a higher power rating, whereas the smaller panels produce less electricity.

To get a solar panel with the highest power rating, you"ll probably have to opt for a high-efficiency 144-cell panel. These panels can have power ratings of upwards of 500 watts. Smaller 120-cell options will likely come in at around 350 to 400 watts.

The power rating of your solar panel is based on its performance under standard testing conditions. Standard

testing conditions are when all variables that impact production are standardized across the industry, allowing for the equal comparison of different solar panels.

However, rarely will standard testing conditions reflect the actual environment your solar panel is exposed to. Everything from shading to your local weather patterns to the angle it"s installed can impact power production.

One of the most important factors for the power output of your solar panel system is the amount of sunlight it receives. More hours of direct sunlight means more production. But if clouds or shade get in the way, the amount of energy your panels produce will decrease.

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