400 watt solar panel specifications

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Clean ingredients, responsible manufacturing, and lasting energy production for 40 years make SunPower Maxeon panels the most sustainable choice in solar. SunPower Maxeon panels are covered by a 40-year warranty1 backed by extensive third-party testing and field data from more than 33 million panels deployed worldwide.

The SunPower Maxeon SPR-MAX5-400-E3 module has a power max output of 400 W. The modules are manufactured in Malaysia and the Philippines, then assembled in Mexico before being shipped to the U.S. These N type silicon, monocrystalline modules create a traditional looking solar display on the roof.

In independent third-party testing, all Maxeon SPR-MAX5 models test at or above their reported electrical output. Some panels produced as much as 5% over their reported rating. Reports indicate that some of the 400-watt panels tested near or at 420W production potential level. This is especially encouraging, not only for overall electricity production, but also when considering the future impact of degradation.

The SunPower/Maxeon flagship N-type silicon Maxeon 5 modules" efficiency ratings are between 21.5% and 22.2%. This puts them on the highest end of average solar panel efficiency. The Maxeon5 range achievement is due to using a rear Interdigitated Back Contact (or IBC configuration).

Unlike its more affordable Maxeon 3, the Performance series - made of P-type silicon with shuttered cell and front-mounted bus bars, - the IBC cells use a micro grid of integrated conductors, connected to the bottom of the cell.

In side by side comparisons, the SunPower/Maxeon shuttered cell P-type silicon Maxeon 3 modules" efficiency ratings range between 22.1% and 22.6% also putting them on the highest end of average solar panel efficiency. In fact, according to Sunpower"s own spec sheets, when comparing efficiency the more affordable Maxeon 3 series performs as well or better than the IBC Maxeon 5 series.

Power tolerance refers to the amount of electricity it will produce either above or below its rated power capacity at Standard Test Conditions (STC). The smaller the power tolerance deviation or range, the more accurate the rated power capacity is.

Maxeon SPR-MAX5-400-E3 modules have a power tolerance of -0/+5%.

The Max5 panels will, at the very minimum, operate at their rated capacity. However, these panels have exceeded, by as much as 5%, their rated capacity.

In a side-by-side comparison of power tolerance, the Maxeon3 panel performed as well as the more expensive

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Maxeon 5 panel.

Solar panels perform best at 77?F (25?C). In Texas, obviously, roofs see temperatures far in excess of 77?F for most of the year. A solar panel"s temperature coefficient is a measurement indicating how well a specific model of solar panel will perform outside of ideal operating conditions.

The panels temperature coefficient along with the temperature of the panel allows you to predict your panels performance during the dog days of summer.

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