5kw solar inverter price australia

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When selecting an inverter for your solar panels, choose from the leading brands. It enhances the efficiency of your solar system. A good-quality 5kW single-phase solar inverter costs $1,320 - $2,500. A 3-phase...

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A modern-day 5kW solar system will be comprised of between 15-20 panels. It will also require about 25-35 m2 of roof space, depending on the wattage of the panels and how they"re tilted. Solar panel sizes vary depending on brand and whether they are designed for commercial or residential use, but most commonly panels are around 1.7 metre by 1 metre on a 5kW system.

Australia is home to some of the lowest solar system prices in the world, thanks to a broad combination of global and local factors. According to the Solar Choice Price Index, the average cost of a 5kW solar system in Australia as of July 2023 is about $1.13 per watt - or about $5,640- after the STC rebate has been deducted and including GST.

Below, you can see the full breakdown of how that average cost varies by capital city in Australia.

The graph below shows how the cost of a 5kW solar system has declined over the past decade. It"s broken down by state capital cities around the country.

Depending a number of factors, the actual power output of a 5kW solar power system will vary. These factors include:

As mentioned in the first point above, different areas receive different amounts of sunlight. The amount of sunshine falling on a solar panel array has a direct impact on the system"s output. As a rough figure, a rooftop in Australia can expect to receive around an annual average of 4.5 hours of "peak sun" (peak sun hours, or PSH) per day. This number may range as high as 5.8 PSH per day in places like Darwin or as low as 4.2 PSH per day in Tasmania. It is important to keep in mind that there will be more sun in the summer and less in the winter months.

Example: An optimally tilted, 85% efficient, north-facing 5kW solar system in Sydney, for example, would produce about (3.5 PSH x 5kW x 85% =) ~15kWh of power on a day in the peak of winter, whereas in the summer output from the same 5kW solar system would be around (6.2 PSH x 5kW x 85% =) ~26kWh. (Figures are only to be taken as rough estimates.)

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The financial returns from a 5kW solar installation are a bit harder to work out, and mainly contingent on whether or not a solar feed-in tariff is available to the owner/operator of the system. Solar Feed-in Tariff schemes pay solar system owners a set amount for each unit of solar power that they export to the electricity grid.

There are network limits on whether you are allowed to export energy from your Solar PV system, and feed-in-tariffs available also vary greatly state to state.

Using Solar Choice"s Solar PV System Return on Investment Calculator, we"ve calculated indicative payback periods, annual internal rates of return (IRR) and annual savings (in year 1) using 5kW solar systems for common usage situations in some major cities based on average system prices as of July 2023.

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