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5 Factors to Consider When Comparing Solar Inverter Prices

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The energy that the sun provides every day is more than enough to meet the needs of the entire world, and unlike fossil fuels, it wonâ??t run out anytime soon. With the increase in affordability and accessibility of solar power, many people are investing in this clean source of energy today.



Harvesting solar energy requires a solar power system of which the solar inverter is the most key component. A solar inverter is used to convert the variable Direct Current (DC) output to Alternating Current (AC), which is of a frequency that can be utilized to run appliances.

However, buying a solar inverter is an investment, and it is advisable to research well so that you can get the best solar inverter in the market. While browsing online, you might get overwhelmed with the information and options of solar inverters, so to help you out, here are 5 factors you can consider when comparing solar inverter prices:

Inverter Type

Inverter type is one of, if not the most important factors while comparing solar inverter prices in the market. There are two kinds of inverters you can get- on-grid and off-grid inverters. On-grid inverters are connected to a local grid, so they don't rely solely on solar power panels. On the other hand, off-grid inverters rely solely on solar panels for the generation of power and thus, off-grid solar inverter prices are generally higher.

Battery

The main component of a solar inverter is the battery which highly determines the solar inverter price. And how long your solar inverter lasts is dependent on the battery, so you must make the selection of the battery very carefully.

One can easily assess the battery capacity, which indicates the maximum number of hours a battery can power all appliances in your home or workplace. This can be calculated by taking the product of the power requirement, in watts, and backup hours, in hours, and dividing it by the voltage, in volts.

Technology

The solar inverter price also depends on the technologies that your solar inverter uses. If you look at the market, there are two kinds of solar inverter technologies available, namely- PWM and MPPT. PWM or Pulse with Modulation controller works like a simple electric switch that makes sure that the voltage of the solar array and the battery's voltage remains equal.

On the other hand, MPPT or Maximum Power Point Tracking makes sure that the solar arrays can deliver maximum power from the solar arrays by adjusting the output voltage to match the battery. Thus, with MPPT controllers, the solar inverter price is also increased.

Power Considerations

Usually, the inverter supplies two kinds of power- the typical power and peak power which also affects the solar inverter price. Explained simply, the typical power is the normal power that is supplied on a steady basis.

On the other hand, peak power is the power that a solar inverter can supply with its maximum capacity for a brief time duration. This can last anywhere from a few seconds to 10-15 minutes. Depending on which kind of power you consume, the solar inverter price is determined.

Always Select a Reputable Brand

Solar inverter prices are generally on the higher end since they are a one-time investment. Therefore, it is highly recommended to go with a brand that is well-reputed rather than a brand that offers low solar inverter prices.

Choosing the right solar inverter according to your needs is necessary. You can check out Luminous, which is a pioneer in the solar products industry in India and one of the most trusted brands. With Luminous' wide portfolio of solar inverters, you can get the best solar inverter prices in the market.