



Can we run AC on Solar Power?



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Solar panels are progressively becoming common in many parts of India where they were not previously considered a feasible choice. Still, there are few concerns about solar power's efficacy and ability to supply the power demands of high-power products such as air conditioners and refrigerators. In this blog, we'll answer those questions head-on and show you how to use your **solar rooftop power plant in Vasundhara** to power air conditioners and other high-power gadgets without spending large amounts.

Because of the rise in global temperatures, air conditioners are widely used to create relief in oppressive heat conditions in regions of northern India throughout the summer. AC is becoming increasingly widespread not only in homes but also in commercial organisations of all sizes, including micro industries. You may save a lot of money by operating numerous ACs or continually running ACs for hospitals, schools, and other public and private places with the correct solar panel arrangement.

The high temperatures seen throughout the summer in India when combined with the high cost of running air conditioners create ideal conditions for high power solar panel installations, allowing consumers to save significantly in the long term.

On-grid Or Off-grid solar rooftop plants

Air conditioners can be run on both on-grid and off-grid solar rooftop systems. The sole difference is that on-grid systems allow you to use your appliances even when there is no electricity, but off-grid systems do not. If you're using an on-grid system, make sure you have kVA inverters installed to manage heavy loads. If your predicted AC demand is higher than normal, it's also a good idea to add more solar panels with a larger kW rating. Apart from that, one of the most compelling reasons to connect to the grid is to take advantage of net metering laws, which allow you to receive benefits on your monthly electricity bills.

You'll need government approval as well as dedicated roof space to install your solar panels if you want to run an on-grid system. The government provides a variety of additional incentives for users who install on-grid **solar rooftop power plant in Ghaziabad**. This will assist you in lowering your electricity expenditures to some level. Subsidies are available at various rates in different states. The system must be grid-connected and battery-free, and you must be a domestic residential consumer to qualify for the benefits. So from the above point , it is clear that an on-grid system would be a better option to make your AC work on solar power.

Run your existing AC on solar power

Special Solar AC are installed in solar panel setup but many homeowners don't want to replace their existing ACs. No one wants to replace their present air conditioner with a new solar air conditioner in this expensive era. However, switching to solar no longer necessitates replacing your air conditioner. Instead of purchasing a new air conditioner, you can convert your old one to a solar air conditioner.

Normal air conditioners operate on AC power and cannot be operated on DC power. So all you need is a 5kW solar system to run your existing air conditioners on solar. It could be a solar system that is off-grid, on-grid, or hybrid. The Solar Inverter is a component found in all types of solar systems. A solar inverter is smart solar equipment that converts DC electricity into AC electricity, allowing you to run your air conditioner on solar energy.

Benefits of Solar Air Conditioners

Solar-powered air conditioning is a great option for places where the weather is hot and humid. And in areas where grid-based electricity is unavailable owing to frequent outages. A solar air conditioner, on the other hand, is designed to overcome these obvious issues. The hybrid air conditioner is powered by a variety of renewable energy sources. It saves grid electricity and lowers the customer's electricity costs. This air conditioner is extremely eco-friendly since it reduces grid power use by up to 100%. Grid power is created using fossil fuels, but a solar system reduces grid power demand, resulting in lower carbon emissions into the atmosphere. Many multinational companies are setting up **solar rooftop plant in Indirapuram** so let's see the benefits of solar ACs

- Electricity bills are reduced.
- Can function without the need for power.
- Both solar power and the electricity grid are being worked on.
- There will be no electricity bill and you will save up to 100%.

- Complete control via an app.
- It requires little maintenance.

Adler Group has many offers for you if you are willing to set up a [solar power plant in Ghaziabad](#). They have solar pumps and other solar appliances of great brands like SunPower, Waaree, and TATA.