



Photovoltaic inverter product animation diagram

What is a solar string inverter?

Solar string inverters are used to convert the DC power output from a string of solar panels to a usable AC power. String inverters are commonly used in residential and commercial installations. Recent improvements in semiconductor technology is allowing for string inverters with high power density (from 10s of kW to 100s of kW).

What ICs are available for a string or central solar inverter system?

Discover ST's solutions and ICs for your string or central solar inverter system design, including SiC MOSFETs, IGBTs, power modules, microcontrollers and connectivity solutions.

How do solar inverters work?

Grid connection: Inverters used in grid-tied solar power systems are designed to synchronize with the utility grid, enabling excess electricity produced by the solar panels to be fed back into the grid. This allows homeowners to receive credit for the excess energy produced and helps to offset the cost of electricity from the utility company.

What are the different types of solar inverters?

The most common types of solar inverters are string and central inverters, used as power conversion systems for grid-tie solar applications. Read more [Click on the diagram to choose the products you need, to start your design.](#) Would you like a guided tour to discover ST's new look? [Click on each block to learn more about ST's offers.](#)

What is a photovoltaic (PV) panel?

The solar panel or PhotoVoltaic (PV) panel, as it is more commonly called, is a DC source with a non-linear V vs I characteristics. A variety of power topologies are used to condition power from the PV source so that it can be used in variety of applications such as to feed power into the grid (PV inverter) and charge batteries.

How does a PV inverter work?

Traditional PV inverters have MPPT functions built into the inverter. This means the inverter adjusts its DC input voltage to match that of the PV array connected to it. In this type of system, the modules are wired in series and the maximum system voltage is calculated in accordance

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