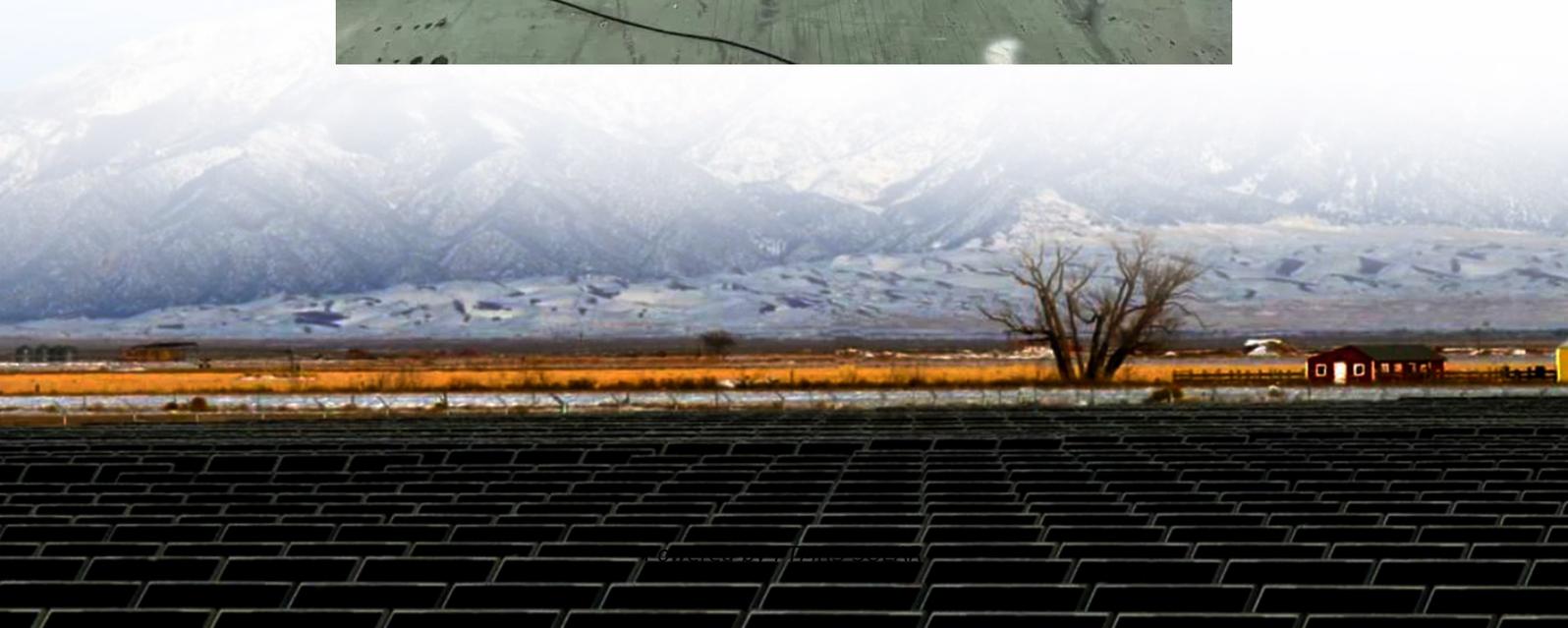


Which ICs are used in solar inverters





Overview

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.

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.

How does a solar inverter work?

Please use a more recent browser. Solar inverters comprise a DC-DC conversion stage, to adapt voltage levels and implement the Maximum Power Point Tracking (MPPT) function, to maximize energy transfer from the panel and a DC-AC conversion stage to correctly shape current and voltage waveforms transferred to the AC grid.

What is a semiconductor inverter?

At the heart of modern inverters are semiconductor switches—most commonly SiC (Silicon Carbide) and GaN (Gallium Nitride) MOSFETs—known for superior efficiency and high-frequency performance. They support Pulse-Width Modulation (PWM) or Sinusoidal PWM (SPWM) control.



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Solar inverters (string and central)

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