

SolarTech Power Solutions

Installation of solar grid-connected inverter



Overview

How do you install a solar inverter?

Install the inverter vertically or at a minimum back tilt of 10°. Forward installation or upside-down installation is prohibited. 1) Reserve enough clearance around the inverter to ensure sufficient space for heat dissipation, as shown in FIG 3-3.

How do I connect multiple inverters to a PV system?

When there is only one inverter in the PV system, connect the additional grounding cable to a nearby grounding point. When there are multiple inverters in the PV system, connect grounding points of all inverters and the PV array frames to the equipotential cable (according to the onsite conditions) to implement an equipotential connection.

What if the solar inverter is not in grid-tied mode?

The solar inverter is not in grid-tied mode. The solar inverter has not received communication data for 10 seconds. Major alarm is generated. Minor or warning alarm is generated. The CSI SmartEnergy APP can establish a communication connection to the dongle via the Bluetooth, thereby achieving local access to the inverter.

Can CSI solar inverter be installed under load?

CSI Solar Co., Ltd. **DO NOT DISCONNECT UNDER LOAD!** Do not install the inverter on structures constructed of flammable, thermolabile, or explosive materials. Ensure the inverter is out of children's reach. The ambient temperature should be between -30°C~ 60°C. The humidity of the installation location should be below 100% without condensation.

What should I know before installing a solar inverter?

Do not install the inverter outdoors in salt, sulfur, or other corrosive areas. Prevent the inverter from direct exposure to sun, rain and snow. The inverter

should be well-ventilated. Ensure air circulation. Never install the inverter in living areas. The inverter will generate noise during operation, affecting daily life.

How much space should a solar inverter have?

1) Reserve enough clearance around the inverter to ensure sufficient space for heat dissipation, as shown in FIG 3-3. (Under the premise of ensuring installability, the clearance on both sides of the inverter can be reduced to 200mm, but it is recommended to be ≥ 500 mm.

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