Photovoltaic power inverter voltage exceeds limit

What is a maximum AC current limit on an inverter?

The current limit can be set to any value between 0and the inverter's max AC current [A](the LCD will allow setting to a higher value but the inverter will never exceed its maximum AC current). Wakeup Grad - Wakeup Gradient: enables gradual power production when it begins operation after a fault or an inverter reset.

How to reduce the voltage limit of a photovoltaic inverter?

In the literature [7,8],it proposes to reduce the voltage limit by reducing the output active powerof the inverter. Although this method can effectively solve the problem of dot voltage limit,it increases the photovoltaic discard rate.

Do PV inverters oversize?

PV inverters are designed so that the generated module output power does not exceed the rated maximum inverter AC power. Oversizing implies having more DC power than AC power. This increases power output in low light conditions. You can install a smaller inverter for a given DC array size,or you can install more PV modules for a given inverter.

What is over current protection mechanism in PV inverter?

As previously discussed, the simultaneous injection of peak active power from PVs and reactive power into the grid for voltage support can trigger the over current protection mechanism in PV inverter. The triggering of over current protection will lead to disconnection of inverter from the grid which is unfavourable during LVRT period.

How to provide voltage support in PV inverter?

To provide voltage support at the PCC,reactive power is injected into the gridunder fault conditions as per the specified grid codes. As previously discussed,the simultaneous injection of peak active power from PVs and reactive power into the grid for voltage support can trigger the over current protection mechanism in PV inverter.

What is the maximum power output curve of a 4 kV inverter?

In accordance with the provisions of the GB/T12325-2008, 4 kV three-phase power supply system allows the voltage deviation of 7%, in order to increase the safety margin, the upper limit of voltage is set to +6.5%. The maximum active power output curve of a day is shown as shown in Fig. 6. The maximum capacity of the inverter is S max = 17 kW.

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