

3-phase Hybrids-FAQ

When is an additional SPD needed with the 3-phase Hybrids?

Applicable to: SHxxRT series

The 3-phase Hybrid SHRT offers surge protection device (SPD) Type II on DC and AC side already integrated in the inverter. SPD is one of the necessary protective devices in the installation to reduce damage caused by overvoltage.

However, if the customer wishes to meet VDE 0100-712 when the distance between the PV panels and the inverter is longer than 10 meters of cable, it is recommended to install a DC SPD Type I between the strings and the inverter DC side.

For further information, please download the user manual [here](#).

This manual is intended for professional technicians who are responsible for installation, operation, maintenance and troubleshooting of inverters, and users who need to check inverter parameters. The inverter must only be installed by professional technicians.

The professional technician is required to meet the following requirements:

- Know electronic, electrical wiring and mechanical expertise, and be familiar with electrical and mechanical schematics.
- Have received professional training related to the installation, commissioning and troubleshooting of electrical equipment.
- Be able to quickly respond to hazards or emergencies that occur during installation, commissioning and troubleshooting.
- Be familiar with local standards and relevant safety regulations of electrical systems.
- Read this manual thoroughly and understand the safety instructions related to operations.