

CX series-FAQ

How to correctly connect multiple inverters in parallel

Applicable to: SGxxCX-series

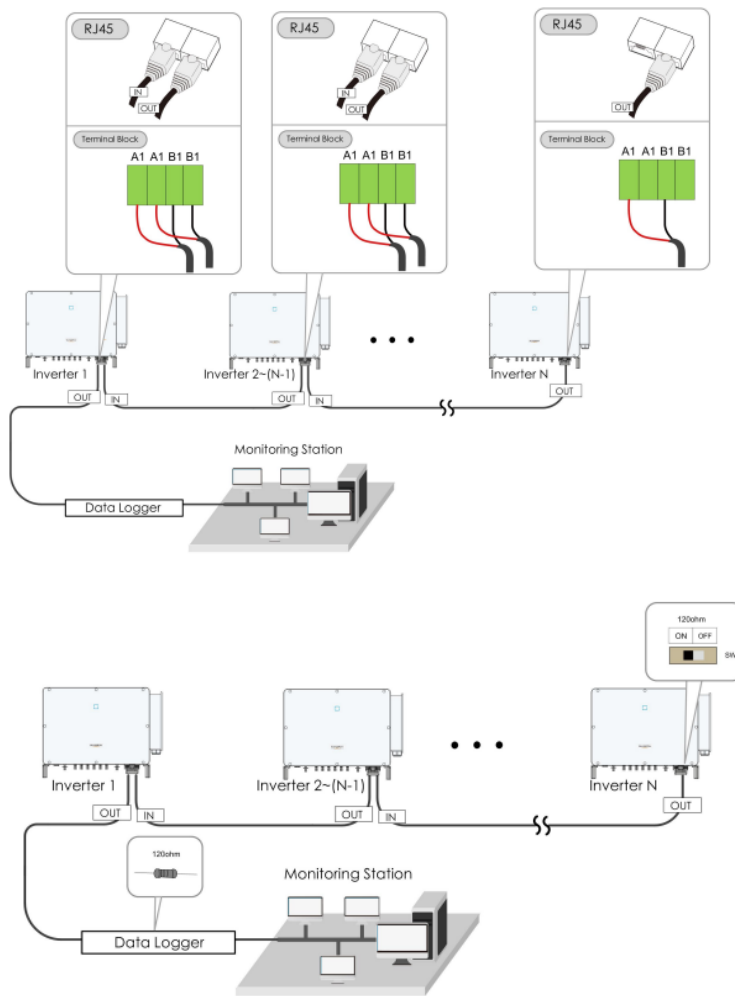


RS485 communication cables should be shielded twisted pair cables or shielded twisted pair Ethernet cables.

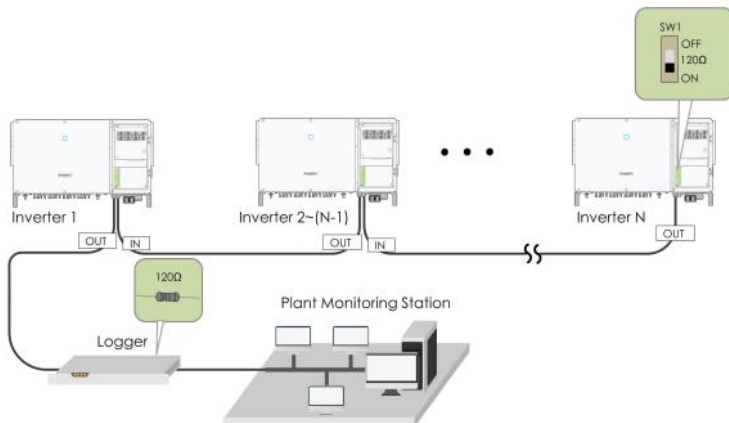
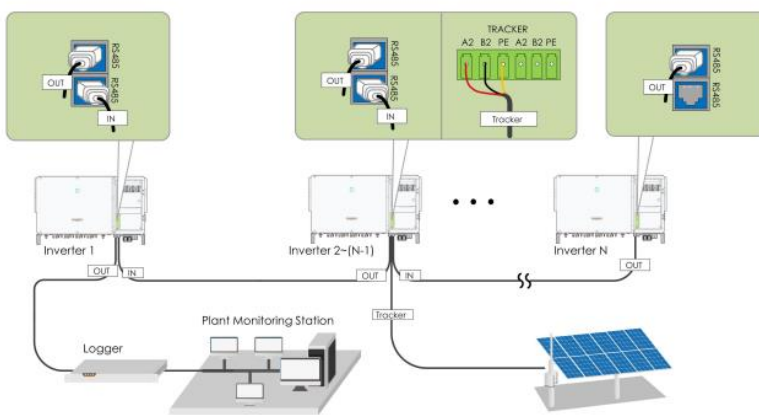
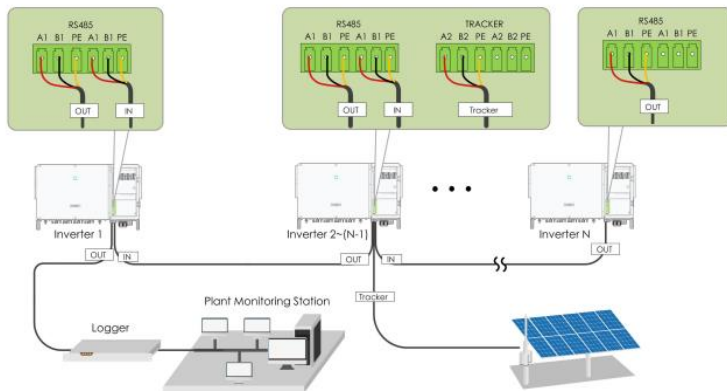
There are three communication terminals, and the silkscreen marks are COM1/COM2/COM3. Please choose according to the actual situation.

1. Multiple inverters cannot share one circuit breaker. Loads cannot be connected between inverters and circuit breakers.
2. The total number of SG30-50CX and SG100CX without feed-in limitation inverters in parallel cannot exceed 30.
3. The total number of SG110CX inverters with feed-in limitation in parallel cannot exceed 25.
4. If the number of inverters, connected in parallel via RS 485 exceeds the number of 15, it is necessary to configure RS485-dip switch (SW1) to ensure the communication quality. The shielding layer of the communication cable should be grounded at a single point and the length of the RS485 cable should be less than 1200m.

Communication wiring SG30-50CX



Communication wiring SG110CX



For further information, please download the user manual for:

[SG30-50CX](#)

[SG110CX](#)

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.