

SH5K+ Single and three phase wiring

1 Single-phase Property Wiring

Place the CT clamp after the main switch, or between the utility meter and the main switch. For a gross meter, the CT clamp needs to go over both wires connected to the gross meter for the net of load consumption and solar production, with the arrow of the CT clamp pointing in the direction of current flow.

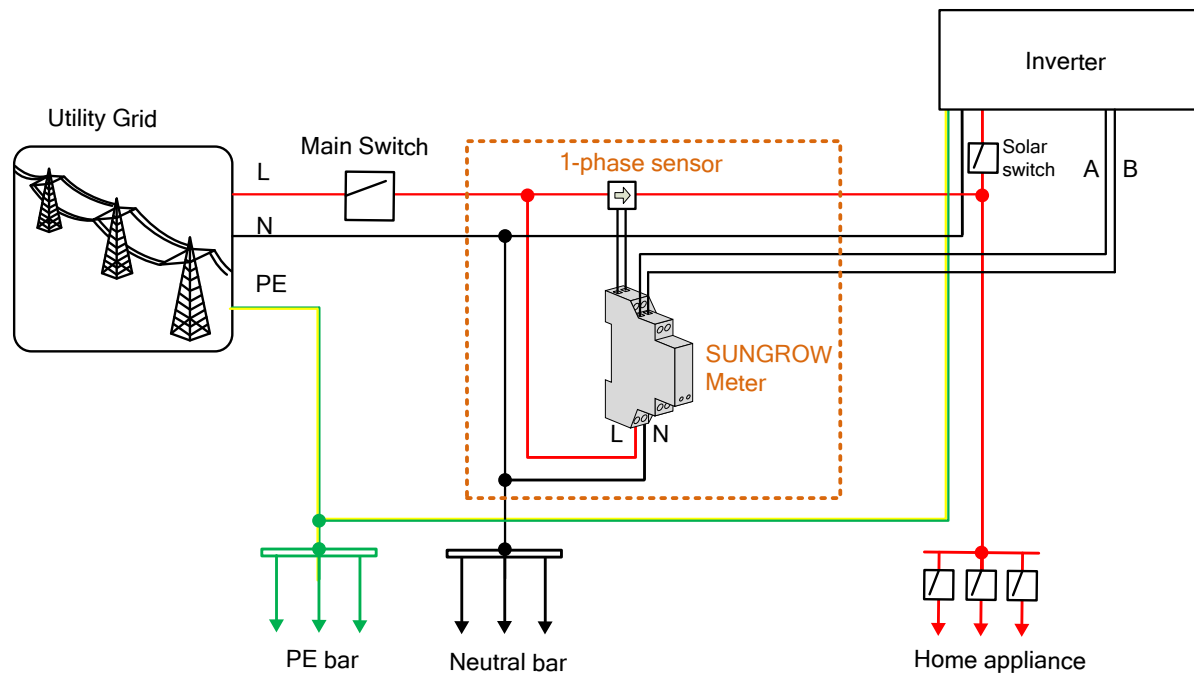


Figure 1: Single-phase Property Wiring

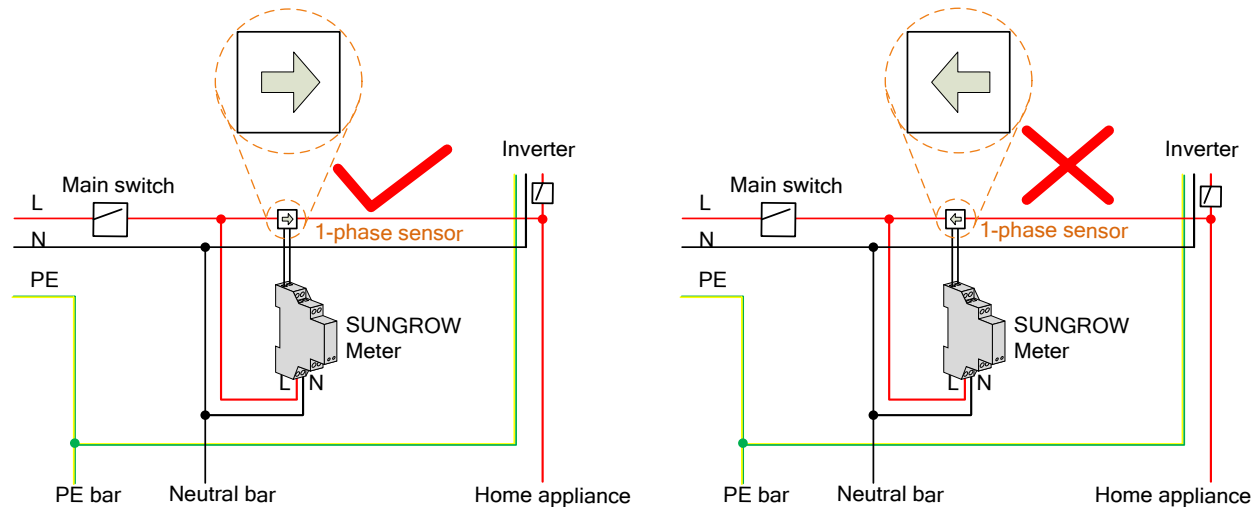


Figure 2: CT clamp (single-phase sensor) and line and neutral connections

2 Three-phase Property Wiring

Please check the wiring diagram for a three-phase system in Figure Wiring Diagram for a Three-phase Property (with an SH5K+, STB5K and a grid-connected inverter). The CT sensor is a single-phase sensor, so should only measure the power on a single-phase circuit. Regarding the location of the CT clamp and wiring, treat the sub-main switch for the single-phase of the inverter as if it is the main switch for a single-phase system in the above instructions. Locate the inverter and CT clamp on the phase that draws the most power, or move loads to that phase. Put the CT clamp between the phase main switch and the solar supply main switch, or immediately before the phase main switch (with nothing else in between other than the wire).

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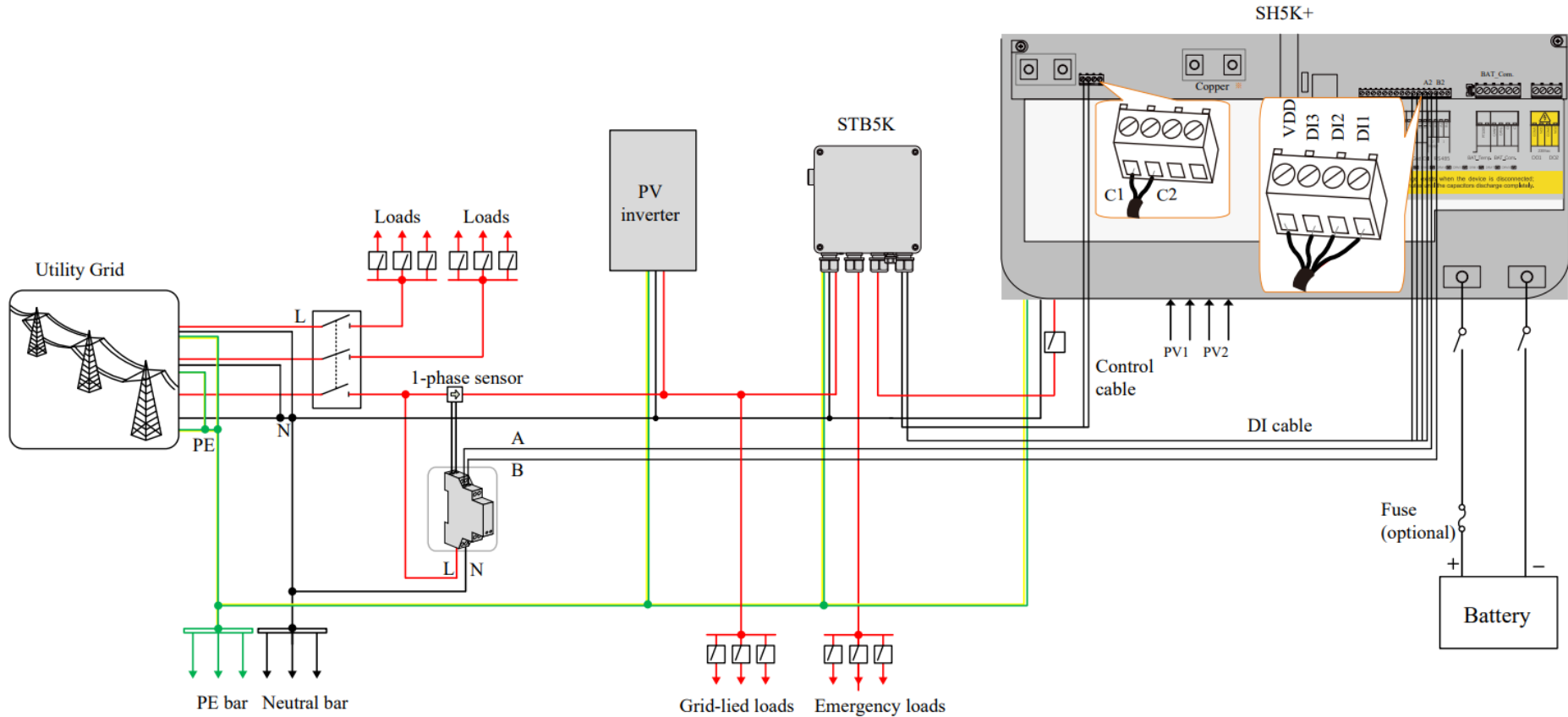


Figure 3: Wiring Diagram for a Three-phase Property (with an SH5K+, STB5K and a grid-connected inverter)