

Application Note



Disabling an Internal Rapid Shutdown Transmitter

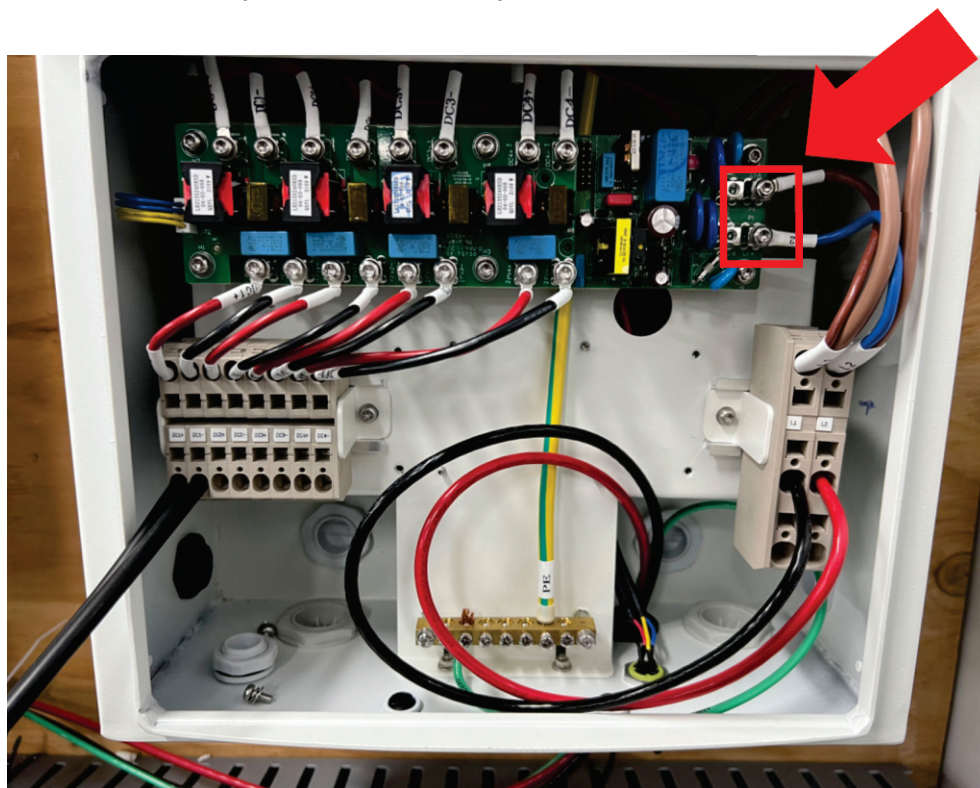
October 20th, 2023

Solis inverters models from 3.6kW to 100kW sold in North America have an option to come with an integrated (internal) rapid shutdown PLC signal transmitter. If the transmitter is not going to be used or if an external transmitter is going to take its place, then the internal transmitter should be disabled. This guide explains the processes for disabling an internal transmitter properly.

Solis-1P(3.6-10)K-4G-US

-SPRT SunSpec Transmitter

1. Make sure the inverter is completely off. Both DC and AC disconnect switches must be opened prior to proceeding any further. Use a multimeter to verify that the AC voltage is 0V at the inverter terminals.
2. Use a Torqx T20 screwdriver to remove the two screws shown in the red box in the photo below.
3. Tape off the ends of the blue and brown cables with electrical tape, then stick them down to the right of the AC terminals where they will be out of the way. The internal transmitter is now disabled.



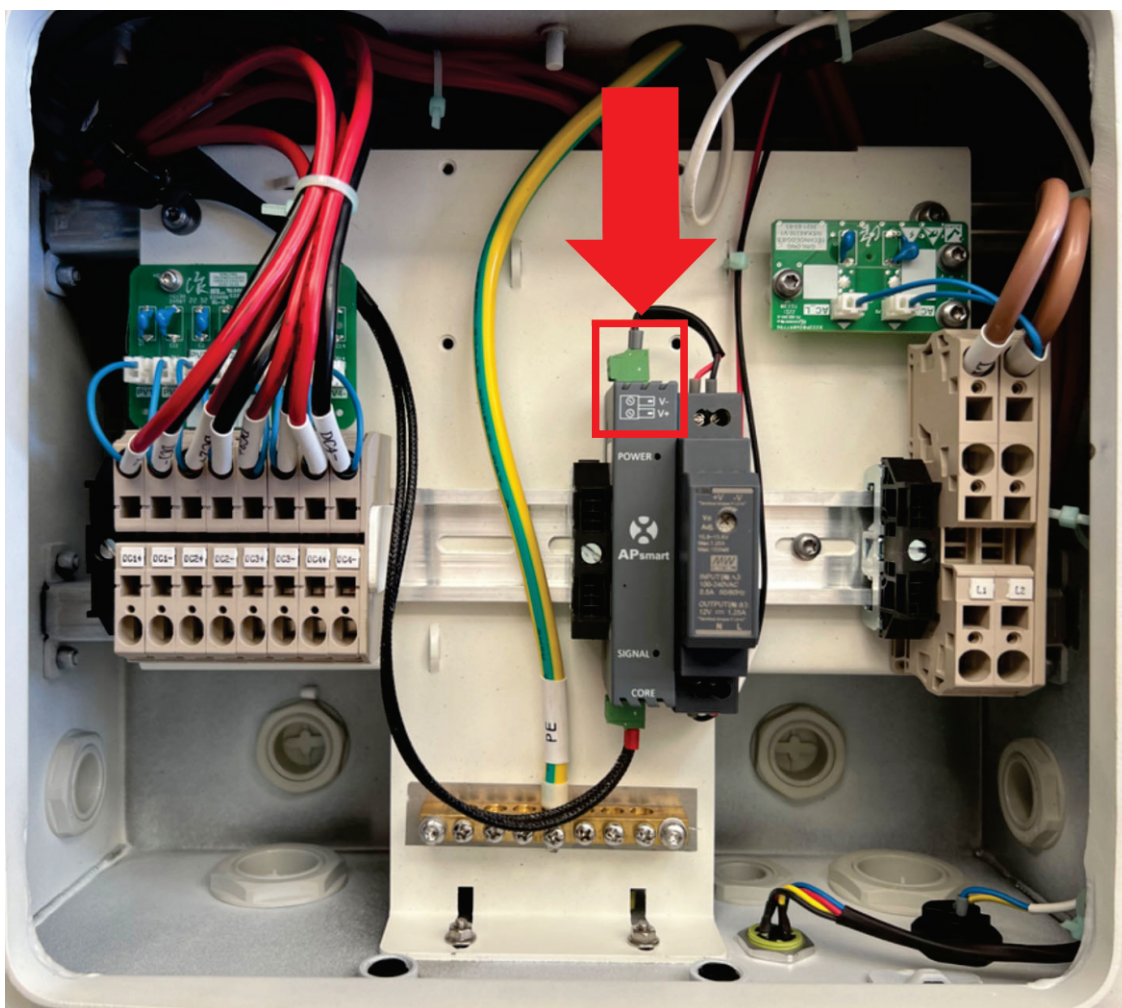
Application Note



Solis-1P(3.6-10)K-4G-US

-APST APsmart Transmitter

1. Make sure the inverter is completely off. Both DC and AC disconnect switches must be opened prior to proceeding any further. Use a multimeter to verify that the AC voltage is 0V at the inverter terminals.
 2. **No tools are required. Pull up on the small green terminal block indicated in the photo below.**
 3. With the block removed, the transmitter will not receive any power and will become disabled.
- Leave the terminal block hanging, this will not cause any damage to equipment.



Application Note



S6-EH1P(3.8-11.4)K-H-US

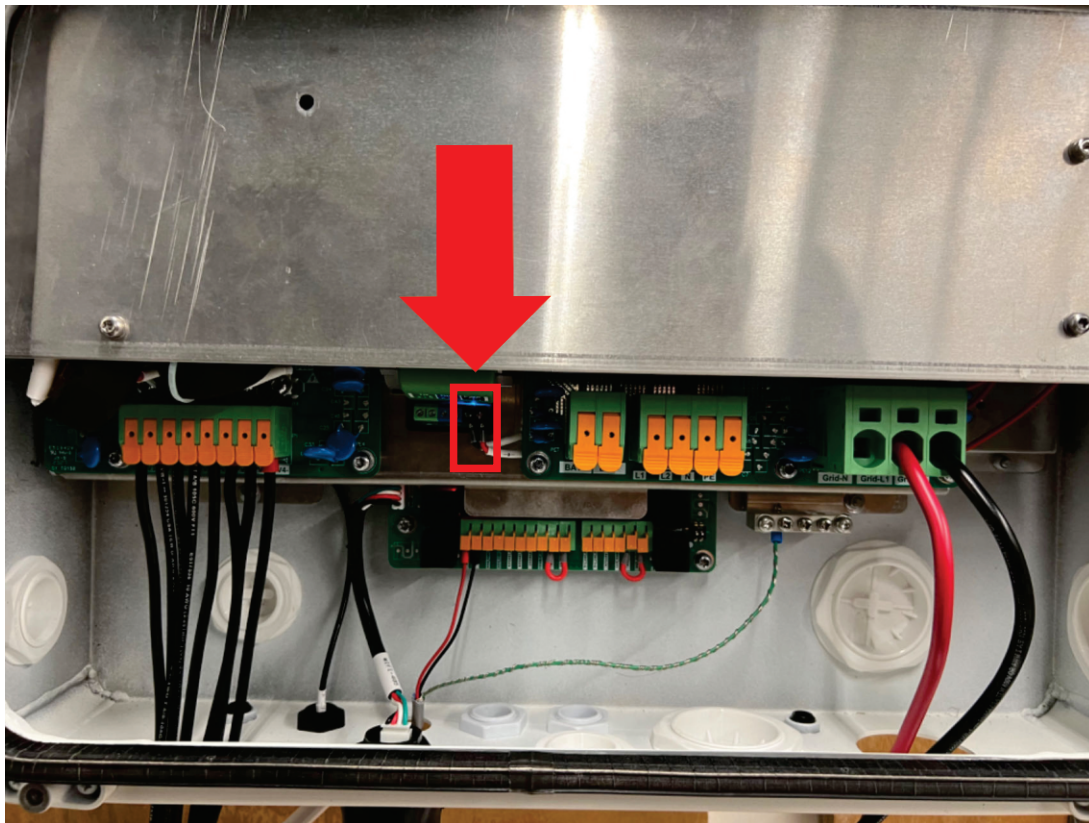
-RSS Tigo Transmitter

1. Make sure the inverter is completely off. Both DC and AC disconnect switches must be opened prior to proceeding any further. Use a multimeter to verify that the AC voltage is 0V at the inverter terminals.

2. **No tools are required. Pull down on the small black terminal block indicated in the photo below.**

3. With the block removed, the transmitter will not receive any power and will become disabled.

Leave the terminal block hanging, this will not cause any damage to equipment.



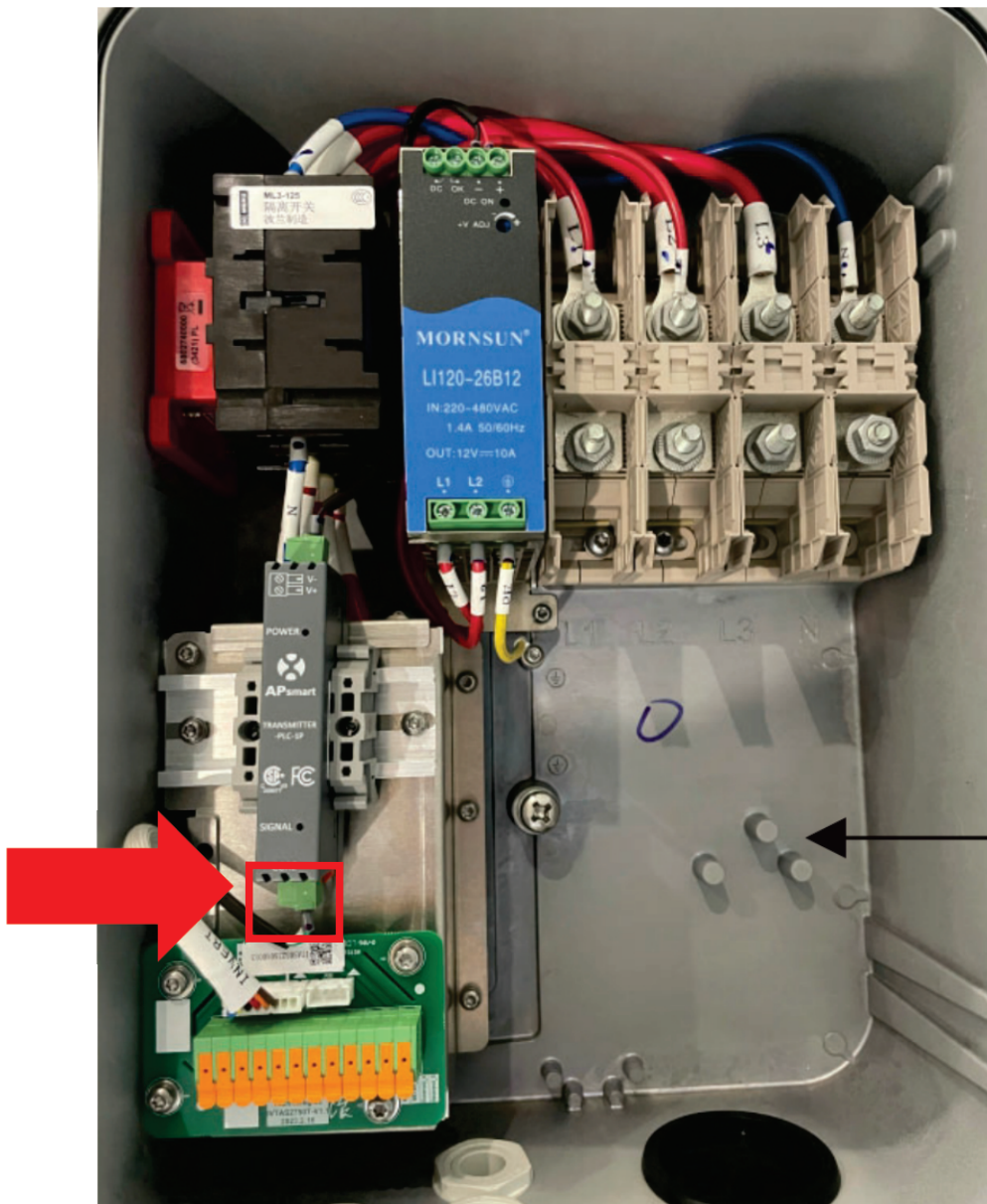
Application Note



S6-GC(25-60)K-US

-APST APsmart Transmitter

1. Make sure the inverter is completely off. Both DC and AC disconnect switches must be opened prior to proceeding any further. Use a multimeter to verify that the AC voltage is 0V at the inverter terminals.
 2. No tools are required. Pull down on the small green terminal block indicated in the photo below.
 3. With the block removed, the transmitter will not be able to induce a PLC signal on the PV strings.
- Leave the terminal block hanging, this will not cause any damage to equipment.



Application Note



S5-GC(75-100)K-US

-APST APsmart Transmitter

1. Make sure the inverter is completely off. Both DC and AC disconnect switches must be opened prior to proceeding any further. Use a multimeter to verify that the AC voltage is 0V at the inverter terminals.
2. Using a small cabinet-tip screwdriver, loosen the four small terminals indicated in the photo below.
3. Remove the four wires and then tape off the ends with wire tape before letting them hang.
4. With the four wires removed, the transmitter will not be able to induce a PLC signal on the PV strings.



Application Note



S5-GC(75-100)K-US

-RSS Tigo Transmitter

1. Make sure the inverter is completely off. Both DC and AC disconnect switches must be opened prior to proceeding any further. Use a multimeter to verify that the AC voltage is 0V at the inverter terminals.
 2. No tools are required. Pull down on the two small black terminal blocks indicated in the photo until they come out. This disconnects the cores from the transmitter.
 3. With the blocks removed, the transmitter will not be able to induce a PLC signal on the PV strings.
- Leave the terminal blocks hanging, they will not cause any damage to equipment.

