How to check CT polarity via iSolarCloud

Disclaimer

The material in this document has been prepared by Sungrow Australia Group Pty. Ltd. ABN 76 168 258 679 and is intended as a guideline to assist solar installers for troubleshooting. It is not a statement or advice on any of the Electrical or Solar Industry standards or guidelines. Please observe all OH&S regulations when working on Sungrow equipment.

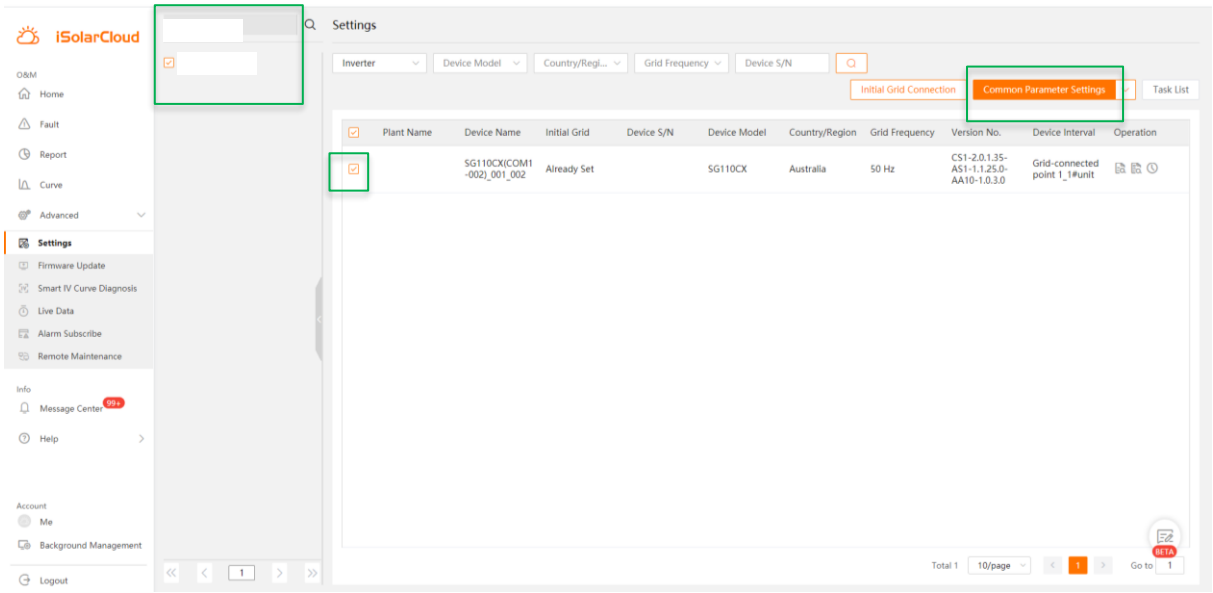
Overview:

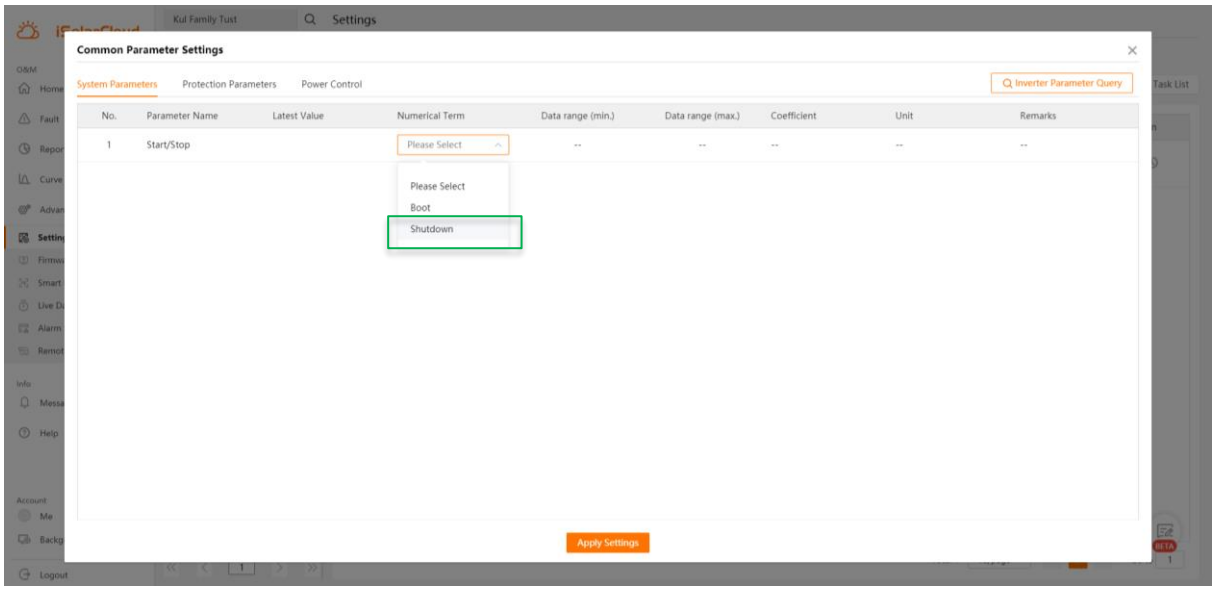
Current transformers are used to determine current flow and direction. They need to be installed correctly.

There are times when the consumption data in the iSolarCloud is not making sense or export control is not functioning properly. This could be due to incorrect CT installation.

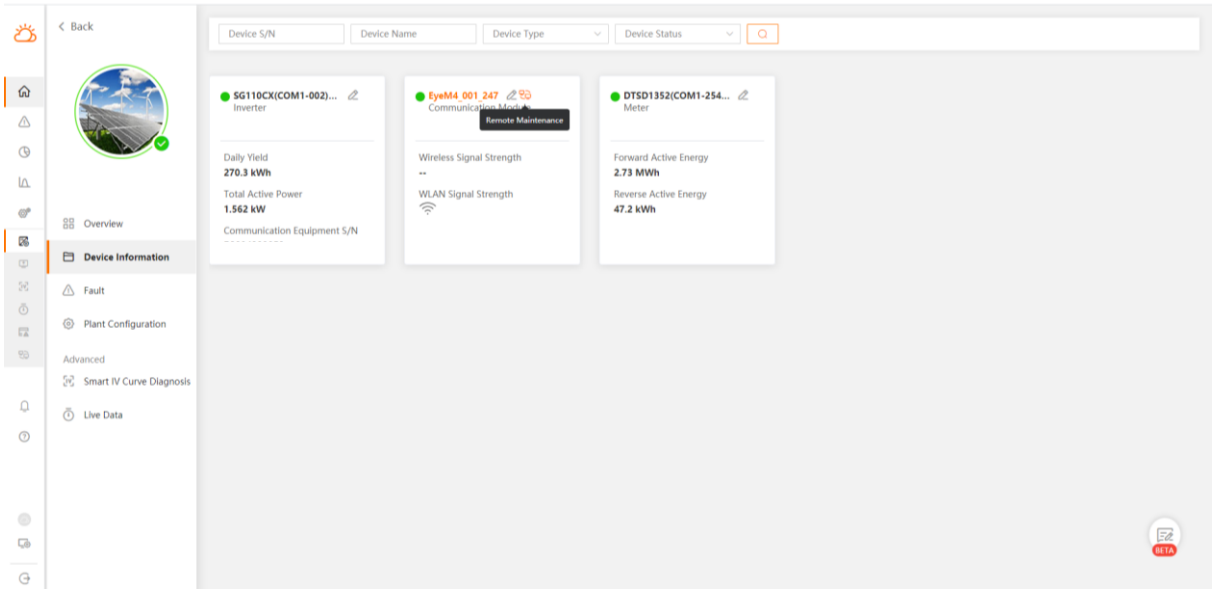
The following procedure will help in determining whether any CT's are the wrong way around.

1. Log into the plant via iSolarCloud, go to settings > Common Parameters > System Parameters and stop the inverter using the Start/Stop command



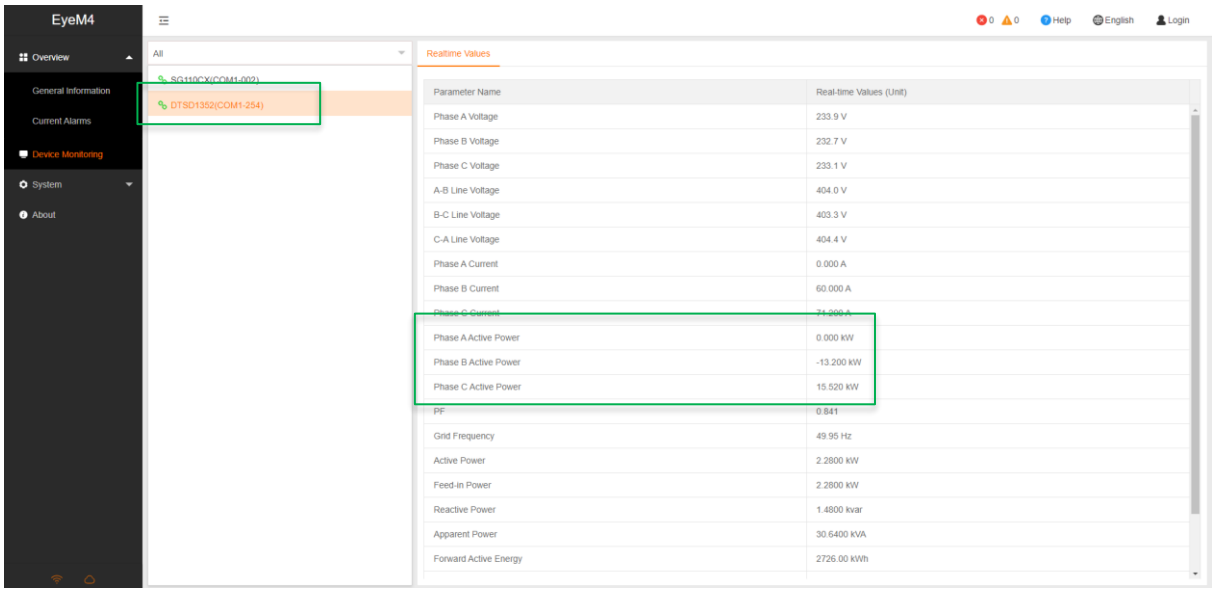


Once the inverter is stopped, go to the home page and log into the EyeM4



Once logged into the EyeM4 (it is not necessary to actually log in as installer), go to ‘Device Monitoring’ and select the meter.

Observe the Phase A/B/C Active power.



All phases should show load only.

In the above example, phase B is showing export energy, which is impossible if the inverter has been stopped (unless there is another PV inverter on that phase).

Conclusion: The CT on phase B is reversed

If the issue persists after following above procedures, please take photos testing on site and contact Sungrow Service Department on 1800 786 476 or email to service@sungrowpower.com.au, Monday- Friday 9am - 5pm (AEDT).