

Connecting a 3-Phase energy meter (DTSU666) to a 3-Phase Hybrid Inverter

Disclaimer

The material in this document has been prepared by Sungrow Power Supply Co. Ltd. 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.

Applicability: SH5.0RT, SH10RT

Electrical Wiring:

All Sungrow 3-Phase energy meters are designed to be installed between the main switch and all other loads and inverters.

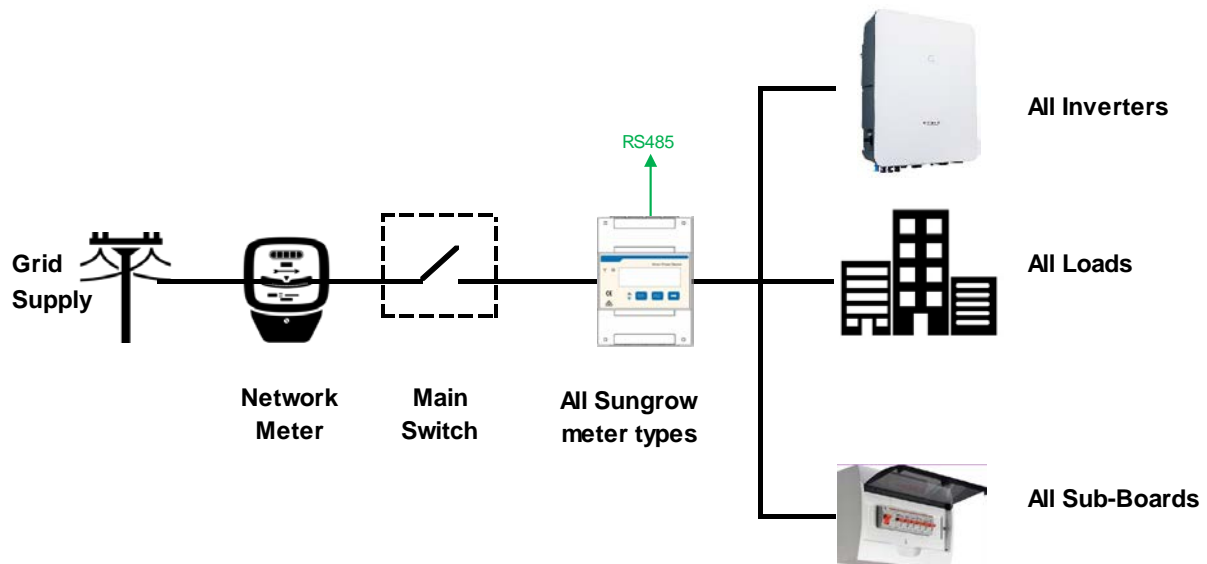


Diagram 1 – Energy Meter Location

Ensure the wiring complies with your country standards.

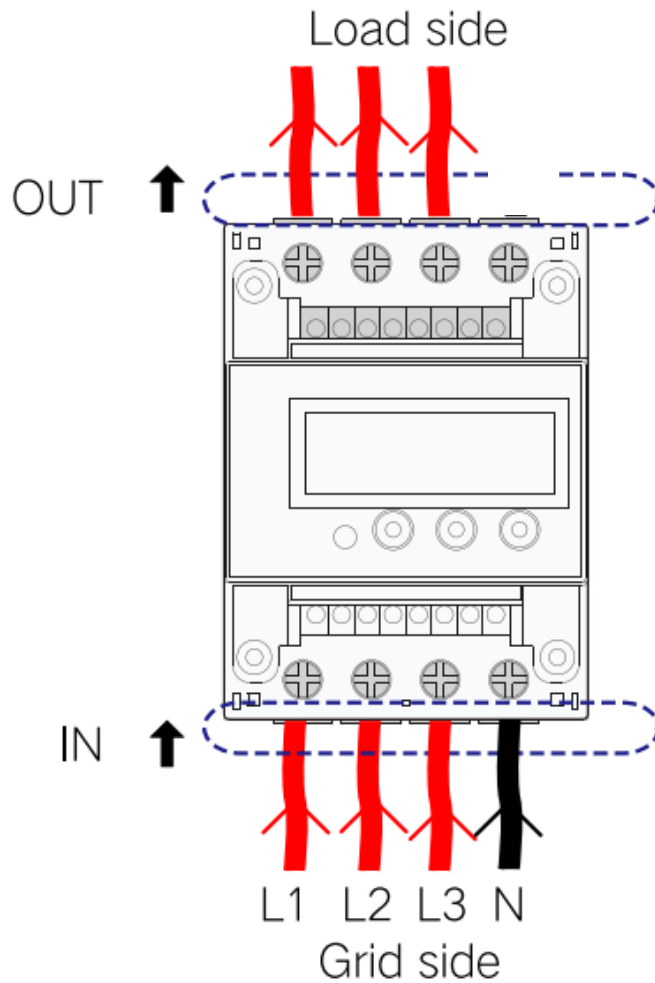


Diagram 2 – Electrical connections

Communications:

The communication protocol between Sungrow Energy Meters and Inverters is RS485. Sungrow recommend Shielded Twisted Pair with a cross sectional area of 0.75mm, and rated to the appropriate voltage for the electrical enclosure.

Connect the RS485A+ to 'Meter A2', and RS485B- to 'Meter B2' terminals of the Multi-Com port plug.

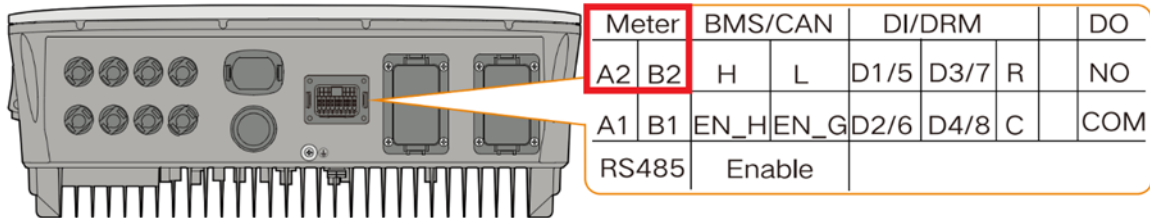


Diagram 3 – Meter connections on Multiplug

Secure after other com cables i.e. Battery BMS cables have also been connected.

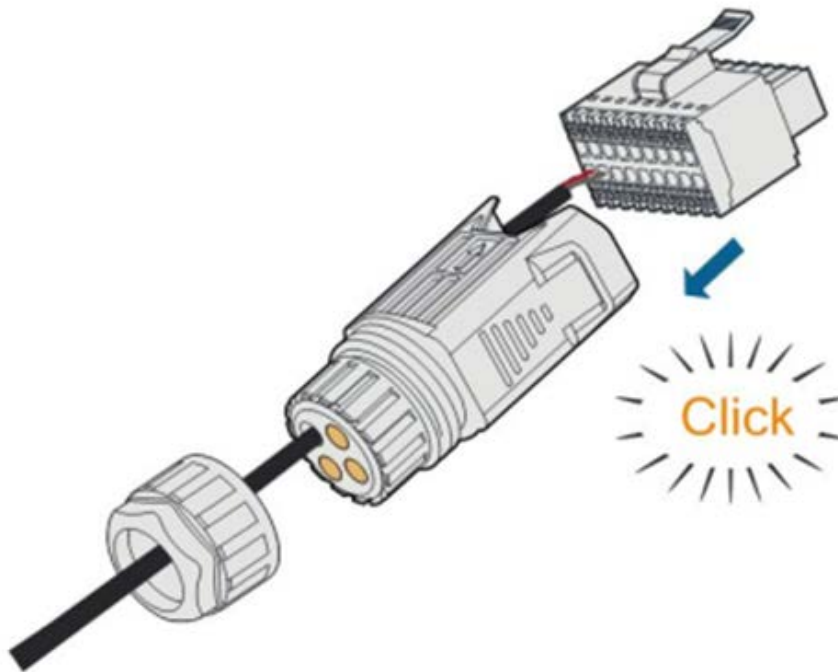


Diagram 4 – Assemble the multiplug

Meter Connections:

Connect the other end of the RS485 (marked A and B) to connections 24 and 25 respectively on the meter.

24 = RS485A+

25 = RS485B-

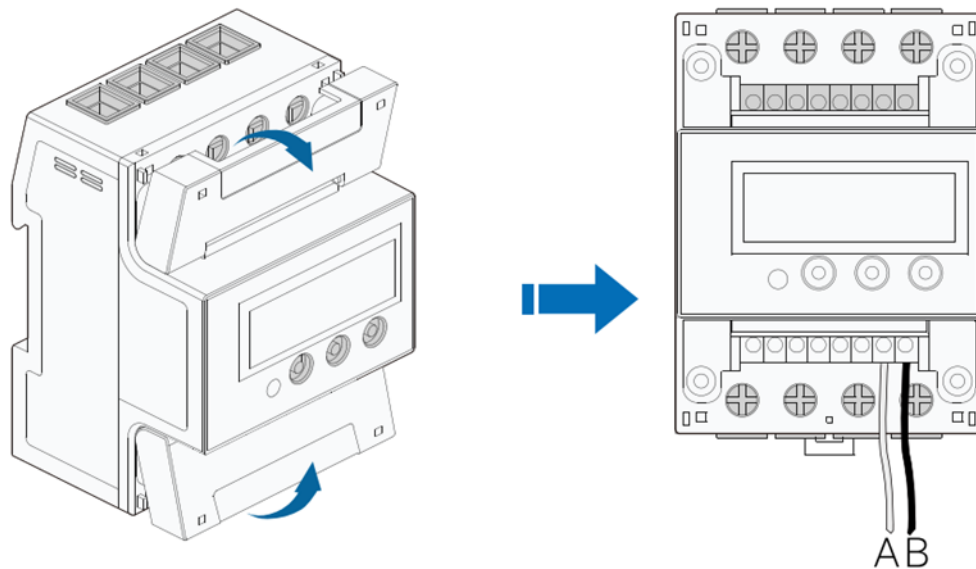


Diagram 5 – Meter detail

If the issue persists after following above procedures, please take photos testing on site and contact Sungrow Service Department at <https://www.sungrowpowerservice.com/Page/Contact/contact-us-global>