

# Connecting a 3-Phase energy meter (DTSU666) to the Premium Crystal G2 Inverter

**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.

*Applicability: SG2K-S, SG2.5K-S, SG3K-S, SG3K-D, SG5K-D, SG8K-D*

**Electrical Wiring:**

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

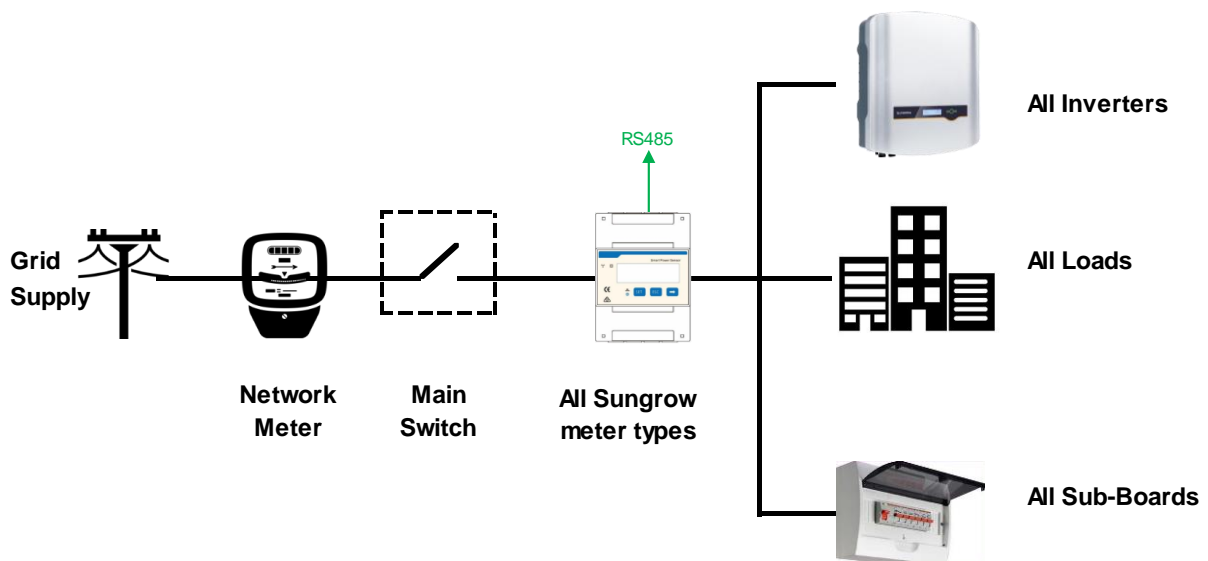


Diagram 1 – Energy Meter Location

Ensure the wiring complies with Australian Standards.

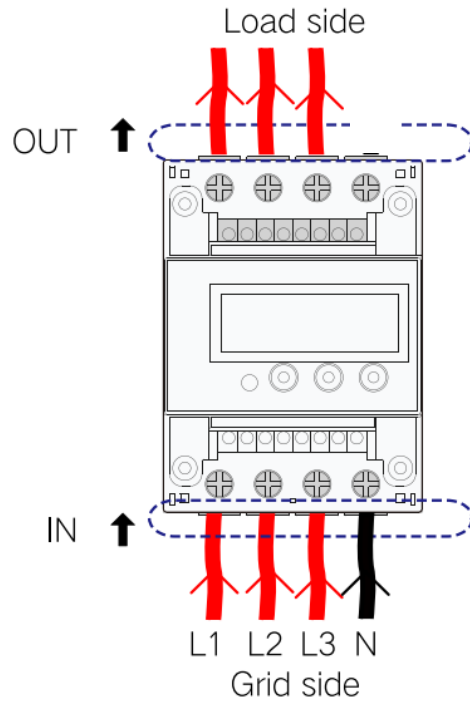


Diagram 2 – Meter Electrical Connections

**Meter Comms Connections:**

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 open wire end of the RS485 (**marked A and B**) to connections 24 and 25 respectively on the meter.

**A = Brown and B = Green**

**24 = RS485A+ and 25 = RS485B-**

**Note: DTSU666 Meter comes with 2 wires. Please ensure to use the cable with the above-mentioned colours for the Premium G2 inverters**

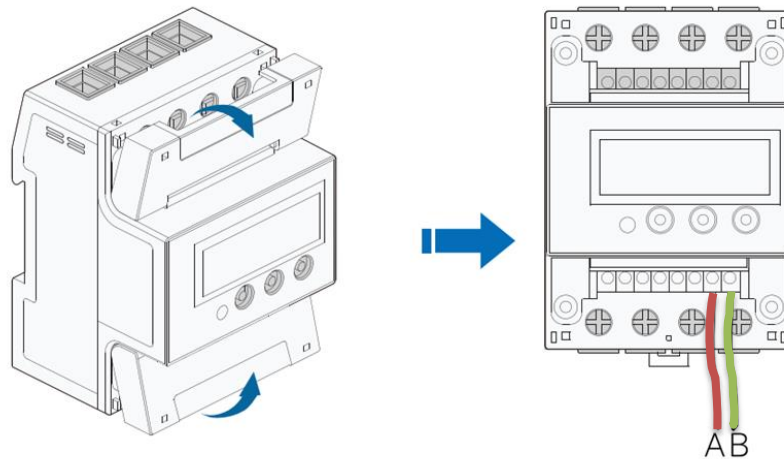


Diagram 3 – Meter Side Comms

**Communications:**

On the inverter end, connect the RJ45 plug to the “**Meter**” port on the bottom of the inverter through the weatherproof communication plug.

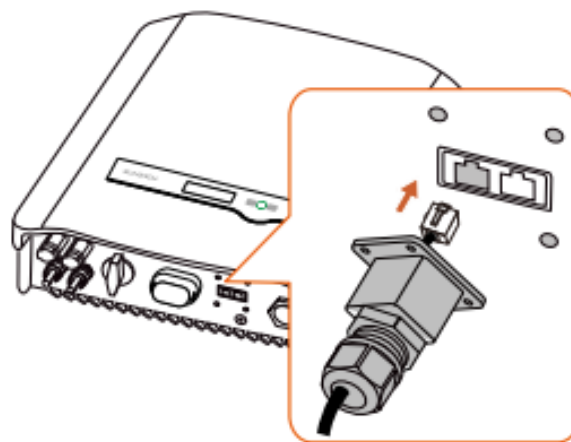


Diagram 4 – Assemble the multiplug

Secure after connecting the com cable and ensure there is an audible click.

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](mailto:service@sungrowpower.com.au), Monday- Friday 9am - 5pm (AEDT).