

Guidelines for 1-Phase energy meter (S100) to Sungrow Inverters Connection

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.

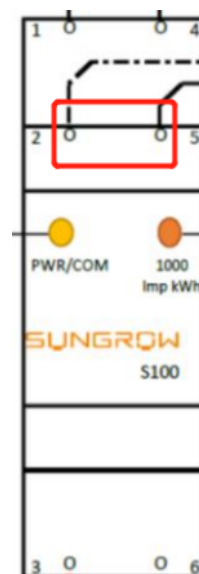
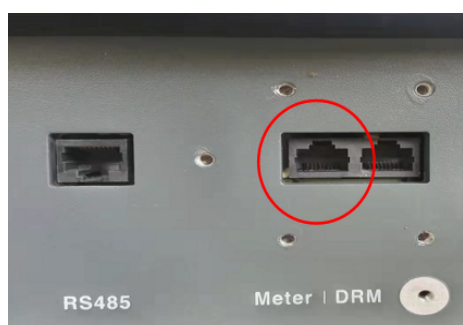
This document mainly specifies the connection between 1-Phase energy meter (S100) to several types of Sungrow Inverters, including G2 single phase, LV & HV hybrid single phase, G3 single phase inverters.

Connection to G2 Single Phase Inverter

Applicability: SG2K-S/SG2K5-S/SG3K-S and SG3K-D/SG5K-D/SG8K-D

Equipped by RJ45 cable from Sungrow, the pin connections to S100 meter are as follow

RJ45 Cable	S100 Meter
Pin 8 (Cable A)	Terminal 2
Pin 6 (Cable B)	Terminal 5

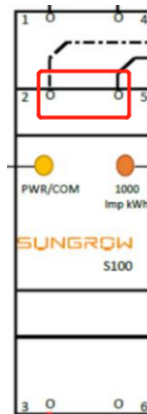
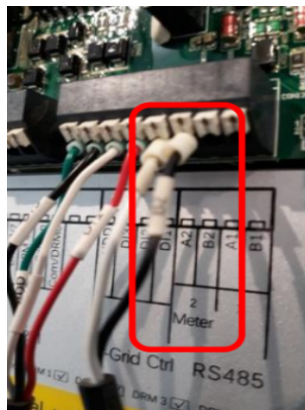


Connection to LV Hybrid Single Phase Inverter

Applicability: SH5K, SH5K+, SH5K-20, SH5K-30

Connection from Inverter side is from the terminal inside the inverter. The pin connections to S100 meter are as follow

Terminal Inside Inverter	S100 Meter
A2 (Cable A)	Terminal 2
B2 (Cable B)	Terminal 5

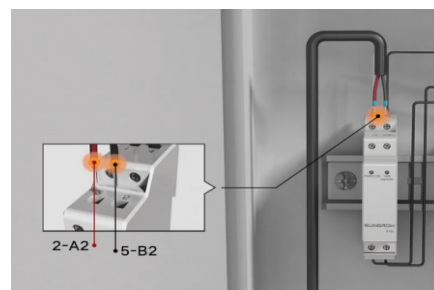
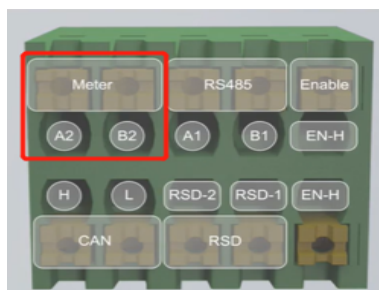


Connection to HV Hybrid Single Phase Inverter

Applicability: SH5.0RS, SH6.0RS

Connection from Inverter side is from the Multi Com Port Plug (MCP) under communication port. The pin connections to S100 meter are as follow

MCP	S100 Meter
Pin 1 (A2, Cable A)	Terminal 2
Pin 3 (B2, Cable B)	Terminal 5



NOTE: In the iSolarCloud, choose “Enable” Meter Communication Detection Parameter

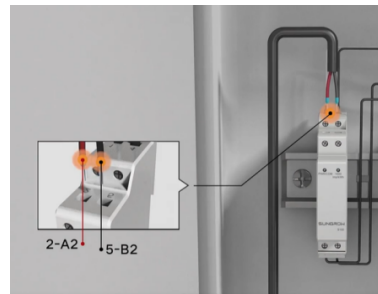
Connection to G3 Single Phase Inverter

Applicability: SG2.0RS-S/SG3.0_5.0RS

Connection from Inverter side is from the Multi Com Port Plug (MCP) under communication port. The pin connections to S100 meter are as follow

MCP	S100 Meter
Pin 3 (A2, Cable A)	Terminal 2
Pin 4 (B2, Cable B)	Terminal 5

RS485	Meter	DRM	RSD
A1	A2	R	RSD-1
B1	B2	C	RSD-2



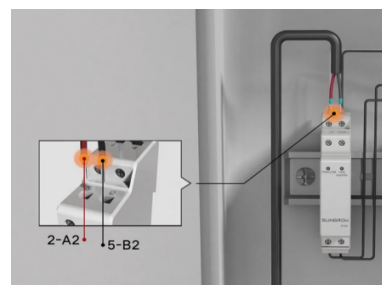
Connection to G3 Single Phase Inverter

Applicability: SG5.0RS-ADA/SG8.0_10RS

Connection from Inverter side is from the Multi Com Port Plug (MCP) under communication port. The pin connections to S100 meter are as follow

MCP	S100 Meter
Pin 1 (A2, Cable A)	Terminal 2
Pin 3 (B2, Cable B)	Terminal 5

Meter		RS485	
A2	B2	A1	B1
		RSD-2	RSD-1
		RSD	



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).