

TRACKSO CONNECTION MANUAL FOR SUNGROW INVERTERS

Brand: Sungrow
Type: Solar On Grid String Inverter
Models: SG110CX, SG111HV, SG125HV, SG250HX-IN

CONNECTION DIAGRAM

The communication terminals (RS485) are located at the right side of the inverter. And there are two connection terminals on the configuration circuit board: RS485 A/B terminal blocks and RJ45 plug in terminals

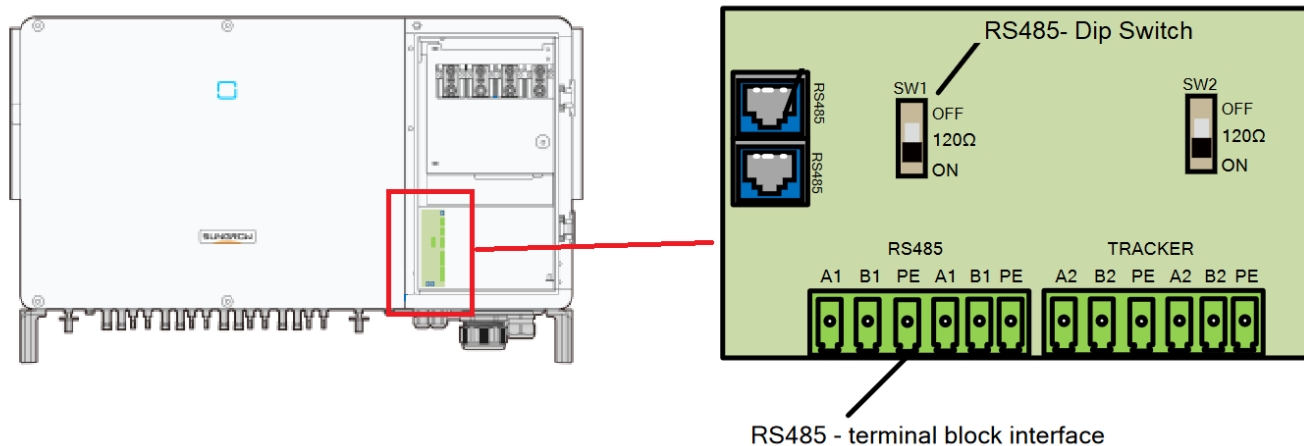
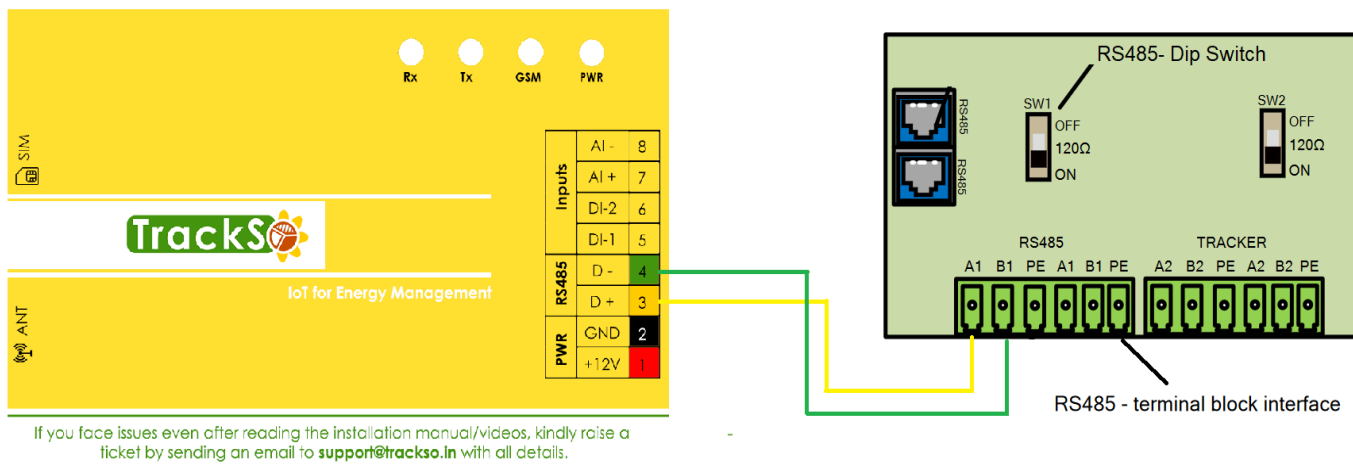


Figure S1 – Sungrow String Inverter Connections

Connection Steps

1. Loosen the six screws on the right cabinet
2. The communication terminals (RS485 A/B) are located at the bottom of the section as shown in Figure S1.
3. Connect the cables to the RS485 bus terminal blocks.
4. Please make the connections from the Terminal Block chip to TrackSo IoT Gateway as mentioned in the Table – ST1

Inv Pin No. & Assignment		TrackSo Pin No. & Assignment	
1	A	3	D+
2	B	4	D-
3	GND		
4	A	Used for Daisy Chain	
5	B		
6	GND		



If you face issues even after reading the installation manual/videos, kindly raise a ticket by sending an email to support@trackso.in with all details.

Table ST1 – Sungrow RS485 chip connections with TrackSo IoT Gateway

DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

Inverter ID: **1, 2, 3, 4** Continuous numbering starting with 1, (**Range:** 1 to 247)

Baud Rate: **9600 (Default) (Values:** 9600, 19200, 38400)

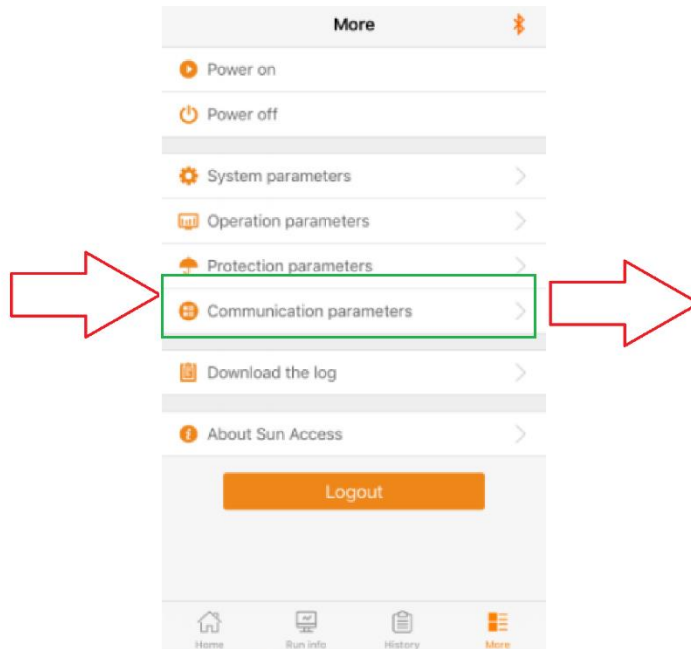
Data Bits: 8 , Stop Bit: 1 , Parity: None

CONFIGURATION AT THE INVERTER END

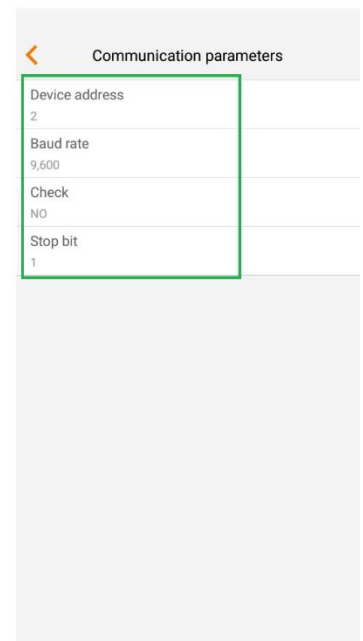
- Install Sun Access application in your Android/IOS Phone.
- During the use of Sun Access App ,Make sure your phone is within 5m from the inverter.
- Connect to inverter via Bluetooth using following details.
 - **Default Username:** user
 - **Default Password:** 111111



Click on More



Select Communication Parameters

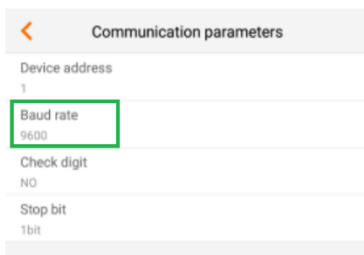


Modify Parameters as req.

SETTING THE BAUD RATE

If you connect multiple inverters via RS485, set the same baud rate on each inverter.

Select Baud Rate-9600

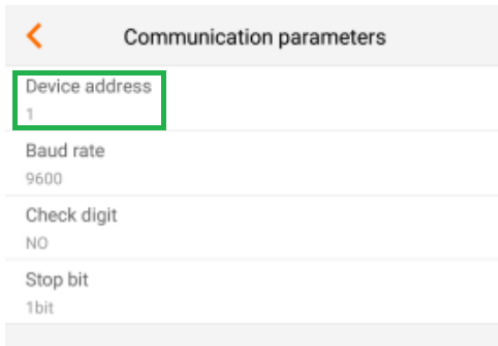


← Set the Inverter baud rate to 9600

SETTING THE INVERTER ID

The inverter ID is used to identify the inverter in a RS485 connection

- Set a different inverter ID for each inverter in the PV plant. Otherwise, the inverters cannot be correctly identified.



← Set correct Inverter Ids

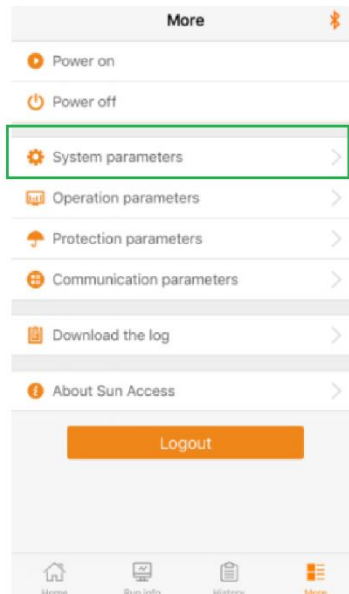
SET DATE & TIME OF INVERTER

For a precise calculation of the statistics in the inverter itself and in a monitoring system, date and time have to be correct.

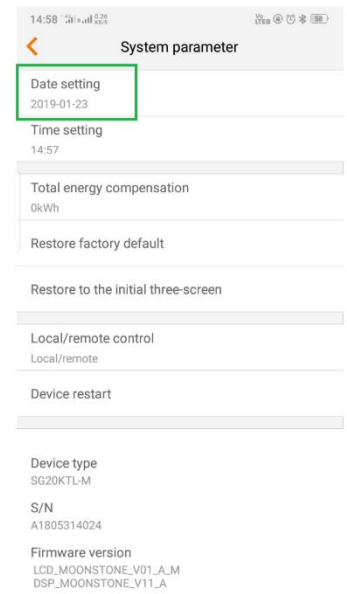
← Set the Correct Date & Time



Click on More



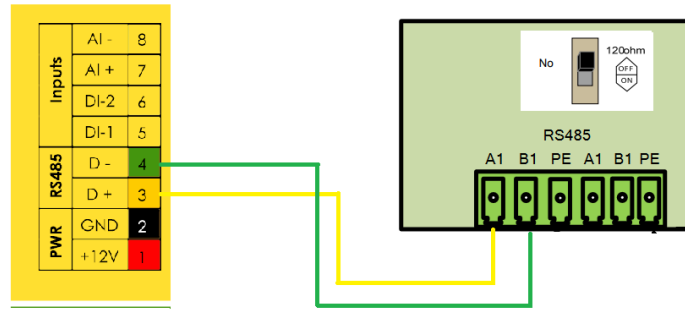
Select System Parameters



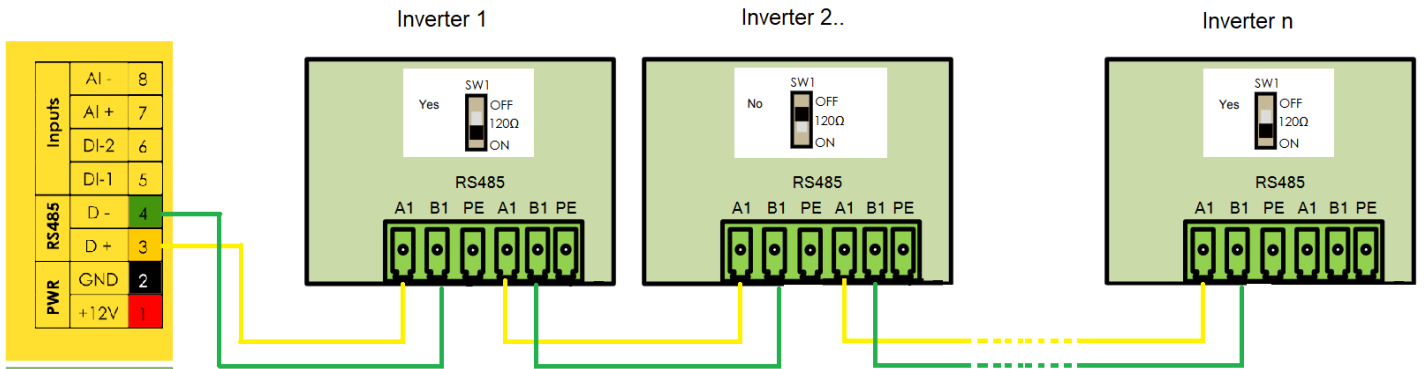
Complete Date Setting

NOTE: The above details are mentioned in the [Installation & Operation Manual](#) for Sungrow Inverter

Single Inverter



Multiple Inverters



When more than 3 inverters are connected on the same daisy chain, the inverters on two ends of the chain should be equipped with terminal resistors of 120 ohm to ensure communication quality by configuring the dip switch (SW1), and the shielding layer of the communication cable should be single-point grounded.

NOTE: The above details are mentioned in the [Installation & Operation Manual](#) for Sungrow Inverter