Brand: Sungrow
Type: Solar On Grid String Inverter
Models: SG5KTL-MT, SG6KTL-MT, SG8KTL-M, SG10KTL-M, SG12KTL-M, SG17KTL-M, SG15KTL-M, SG20KTL-M
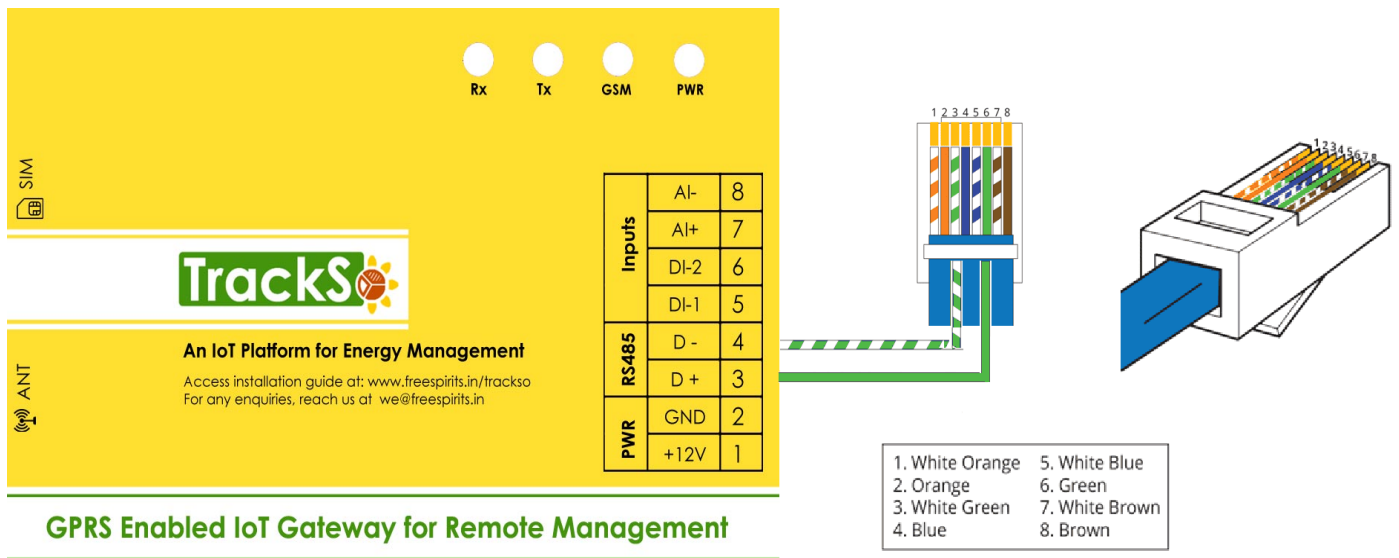
CONNECTION DIAGRAM

The communication terminals (RS485) are located at the bottom of the inverter as in figure S1
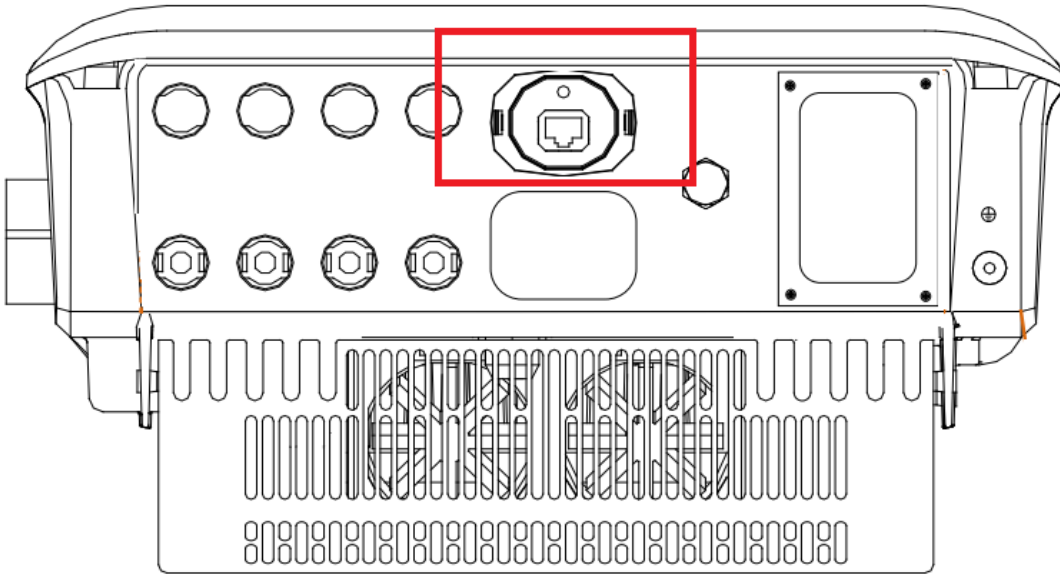
Figure S1 – Sungrow Sring Inverter Connections

Connection Steps

1. The communication terminals (RS485 A/B) are located at the bottom of the inverter as shown in *Figure S1*.
2. Connect the cables from TrackSo to communication port of inverter.

Inputs	AI-	8	
	AI+	7	
	DI-2	6	
	DI-1	5	
RS485	D -	4	
	D +	3	
PWR	GND	2	
	+12V	1	

1. White Orange   5. White Blue
2. Orange   6. Green
3. White Green   7. White Brown
4. Blue   8. Brown

Table ST1 – Sungrow RS485 chip connections with 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

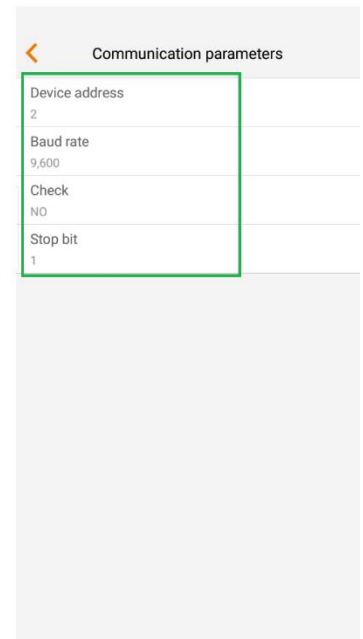## CONFIGURATION AT THE INVERTER END

- 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
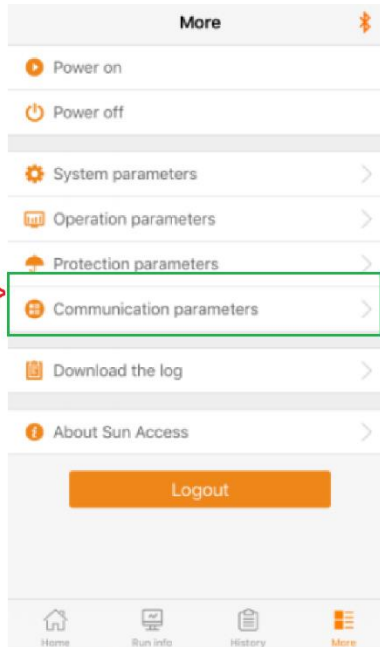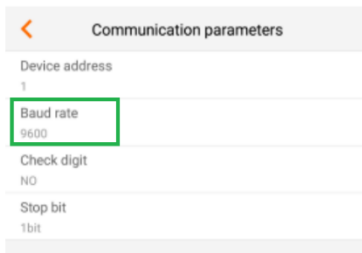

Select Communication Parameters

Modify Parameters as req.

SETTING THE BAUD RATE

If you connect multiple inverters via RS485, set the same baud rate on each inverter.
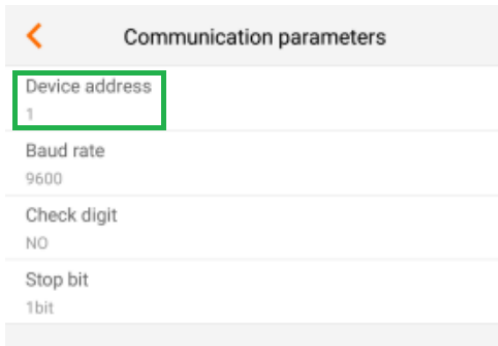
Select Baud Rate-9600

← 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.
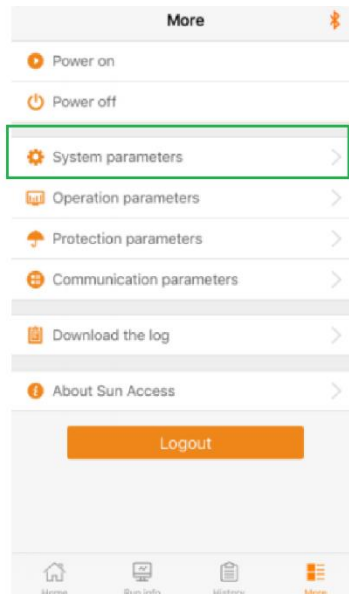

← Set correct Inverter Ids

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.
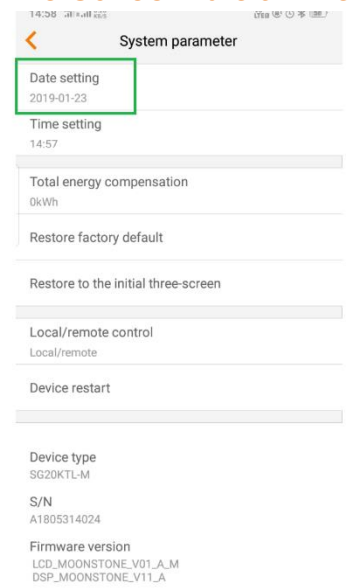
← Set the Correct Date & Time

Click on More   Select System Parameters   Complete Date Setting

NOTE: The above details are mentioned in the ***Installation & Operation Manual*** for Sungrow Inverter