Brand: SAJ
Type: Solar On Grid String Inverter
Models: Suntrio Plus 4K, Suntrio Plus 5K, Suntrio Plus 6K, Suntrio Plus 8K, Suntrio Plus 10K,Suntrio Plus 12K, Suntrio Plus 15K, Suntrio Plus 17K, Suntrio Plus 20K, Suntrio Plus 25K, Suntrio Plus 30K, Suntrio Plus 33K, Suntrio Plus 40K, Suntrio Plus 50K, Suntrio Plus 60K

CONNECTION DIAGRAM

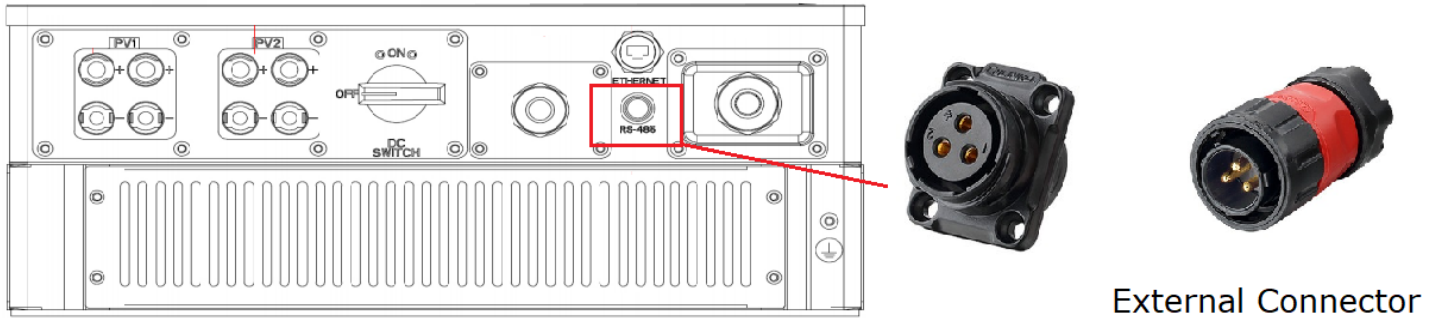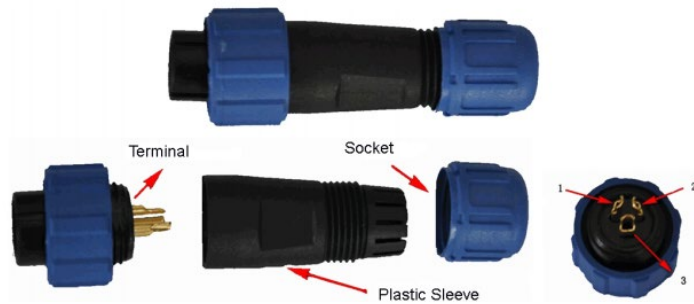Locate communication terminals (RS485) as shown in the picture below.

Figure S1:SAJ String Inverter communication port & Connections

SAJ Pin No. & Assignment		TrackSo Pin No. & Assignment	
1	RS485-	4	RS485-
2	RS485+	3	RS485+

Table T1 – SAJ RS485 chip connections with TrackSo IoT Gateway

Connection Steps:

- This type of inverter requires a 3 Pin connector available with SAJ Inverter.
- Plug in a male connector of the same type
- Please make the connections from the connector o RS485 chip SAJ to Data Logger IoT as mentioned in the Table – T1.
- Please provide 12V external supply to TrackSo IoT Gateway via 12V, 2A DC adaptor provided in the package.

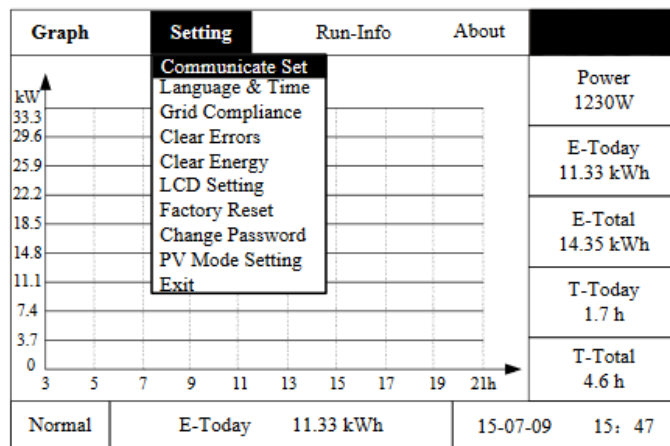| Pin on inverter	Definition
1	B (RS485-)
2	A (RS485+)
3	NA

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

- In the main LCD interface, press "ENT" button,
  then press > to enter into "Setting"

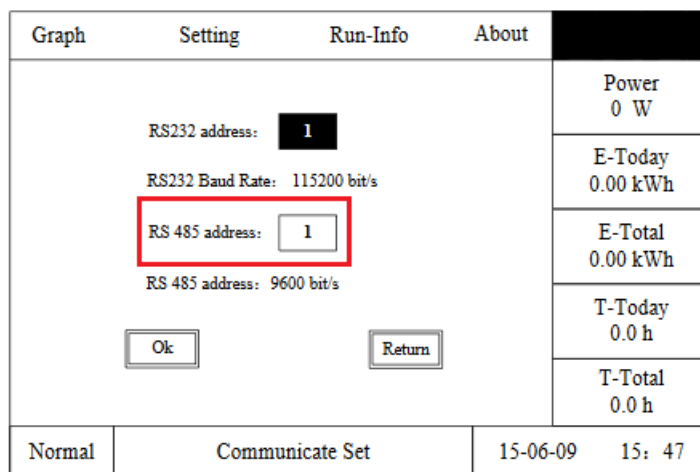- Press ENT to enter into" Communication Settings". Press
  ▼ and ▲ to set the

SETTING THE INVERTER ID

← Set correct Inverter Ids

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.
- On the last inverter in the RS485 connection, switch on the RS485 termination resistor.

In Communication Settings go to RS485 Press ▼ and ▲ to set the required RS485 address.
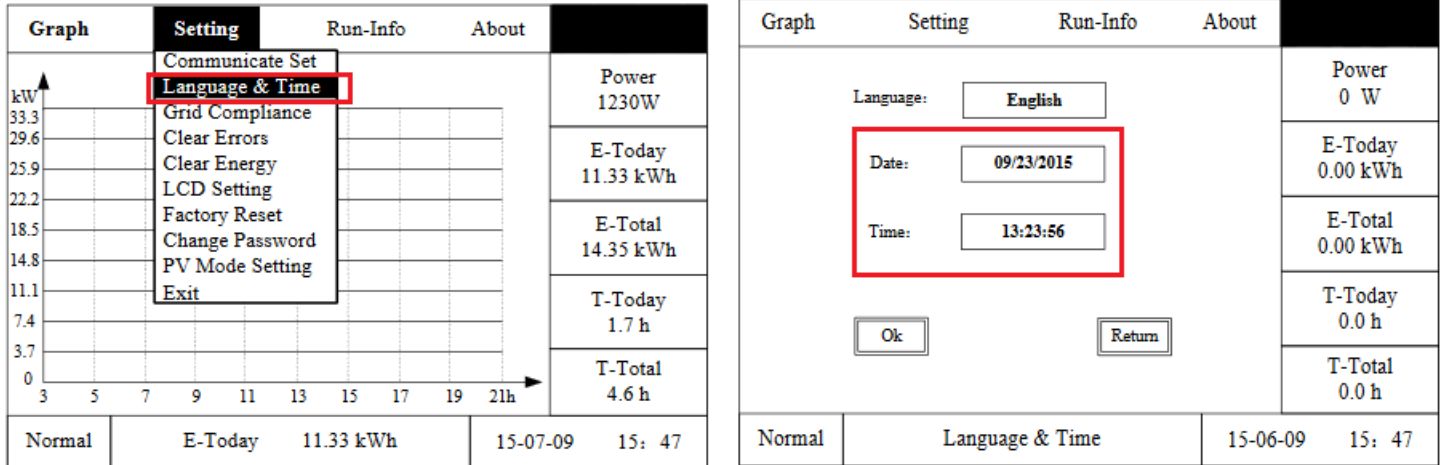

SETTING THE BAUD RATE

Set the baud rate to **9600** bit/s on all the inverters that you are connecting to data logger

← **Set the Correct Date & Time**

For a precise calculation of the statistics in the inverter itself and in a monitoring system, date and time have to be correct.
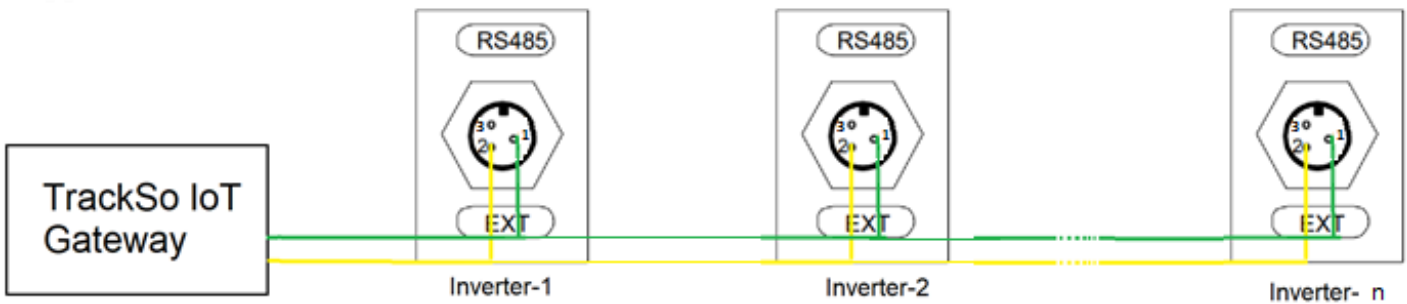
Press ▼ and ▲ then press ENT to enter into "Language & Time". Press ▲ and ▼ to set the language, date and time.

Communication Card Settings

Multiple Inverters

If multiple SAJ Inv are used, connect all Inv in daisy chain mode over theRS485 communication cable. Set different Modbus address (1~31) for each inverter in LCD display.

NOTE: The above details are mentioned in the *Installation & Operation Manual* of SAJ Inverters