

TRACKSO INSTALLATION GUIDE FOR INVT INVERTER

Brand: INVT
Type: Solar On Grid String Inverter
Models: BG 12-17kW, BG 20-40kW, BG 20-40kW, BG 50-60kW

CONNECTION DIAGRAM

Locate communication terminals (RS485) as shown in the picture below. There are two connection terminals on the configuration circuit board: RS485IN and RS485OUT (used for Daisy Chain connections)

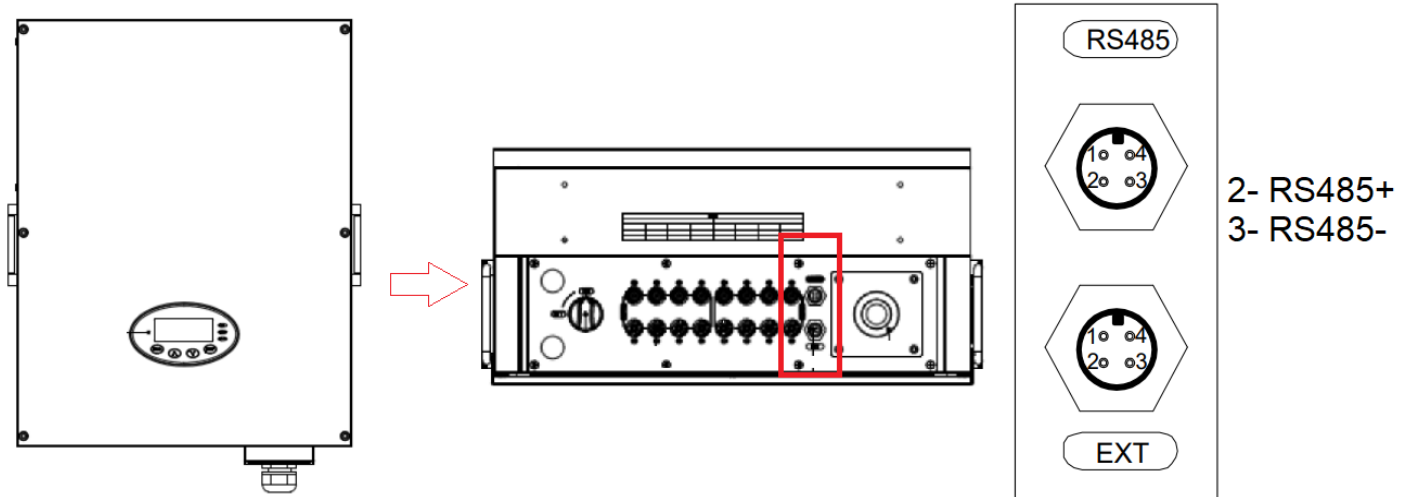


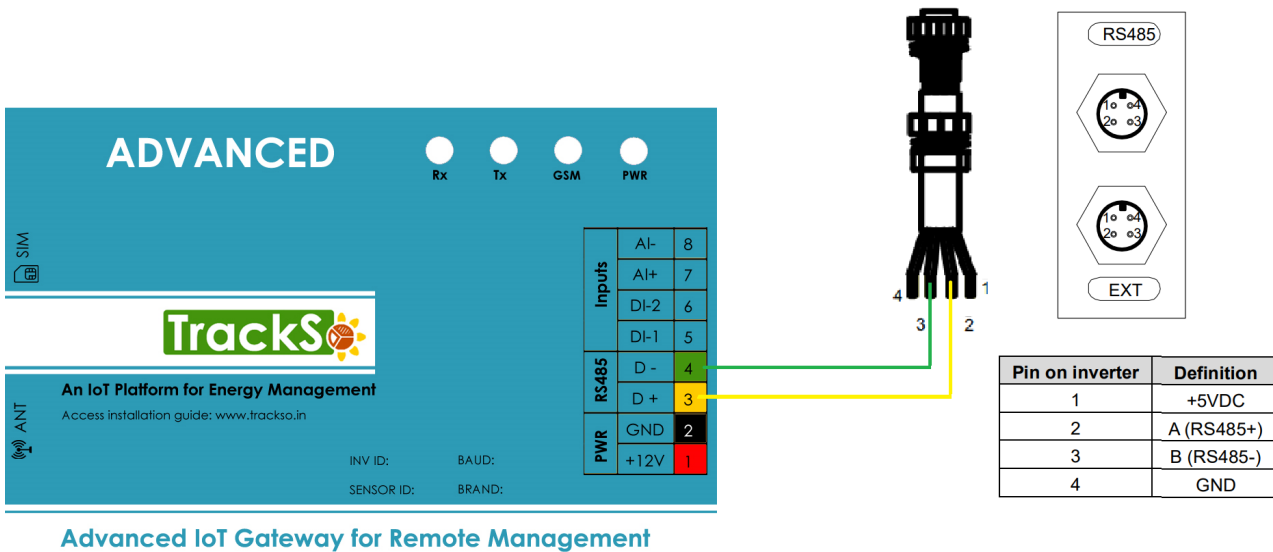
Figure 11: INVT String Inverter communication port & Connections

Connection steps

- Please unscrew the RS485 terminal as shown in A part of Figure S1.
- Please make the connections from the Terminal Block to TrackSo IoT Gateway as mentioned in Table – IT1.
- Provide 12V external supply to TrackSo IoT Gateway via 12V, 2A DC adaptor provided in the package

INVT Pin no. & Assignment		TrackSo Pin No. & Assignment	
2	485-IN	4	Data-
3		3	Data+
2	485-OUT	Used for Daisy Chain Connection	
3			

Table IT1 – INVT RS485 chip connections with TrackSo IoT Gateway



Pin on inverter	Definition
1	+5VDC
2	A (RS485+)
3	B (RS485-)
4	GND

Advanced IoT Gateway for Remote Management

DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

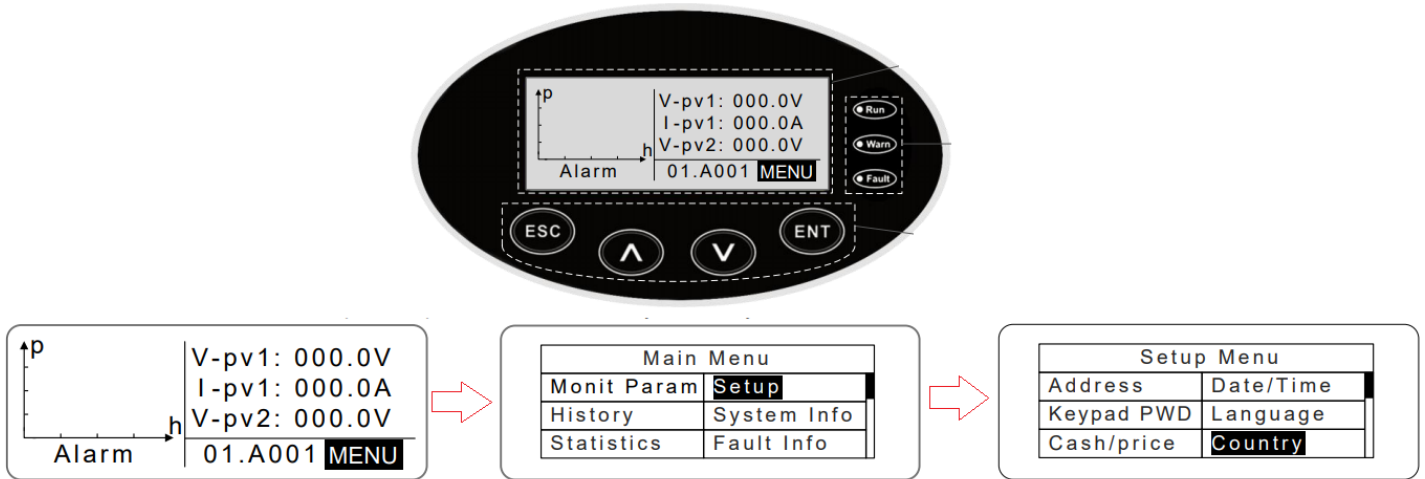
Inverter ID: **1, 2, 3, 4** Continuous numbering starting with 1, (**Range:** 1 to 247)

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

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

CONFIGURATION AT THE INVERTER END

Press “^” and “v” in the main interface to select “Setup Menu”, and then press “ENT” to view the parameters



MENU→Main Menu: Setup→Setup Menu: Parameters can be set in this interface.

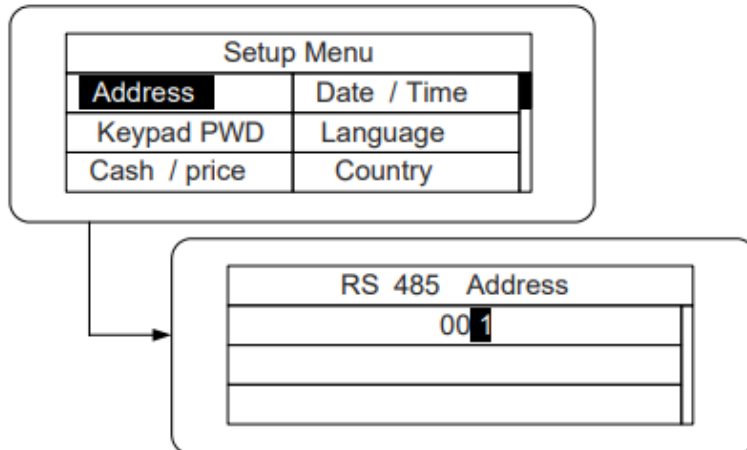
SETTING THE INVERTER ID

← Set correct Inverter Ids

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

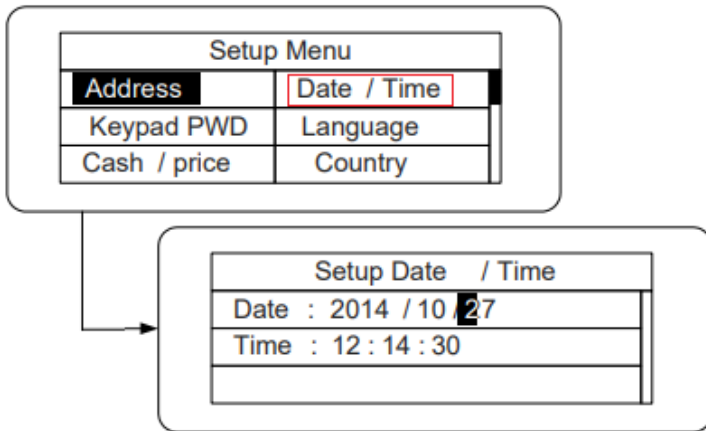
- Set a different inverter ID for each inverter in the PV plant. Otherwise, the inverters cannot be correctly identified.
- On the last inverter in the RS485 connection, switch on the RS485 termination resistor.

Enter into the interface and edit the data through “^” or “v”. And then press “ENT” again to the next bit. After editing the three bits press “ENT” to save the edition and press “ESC” to exit



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.



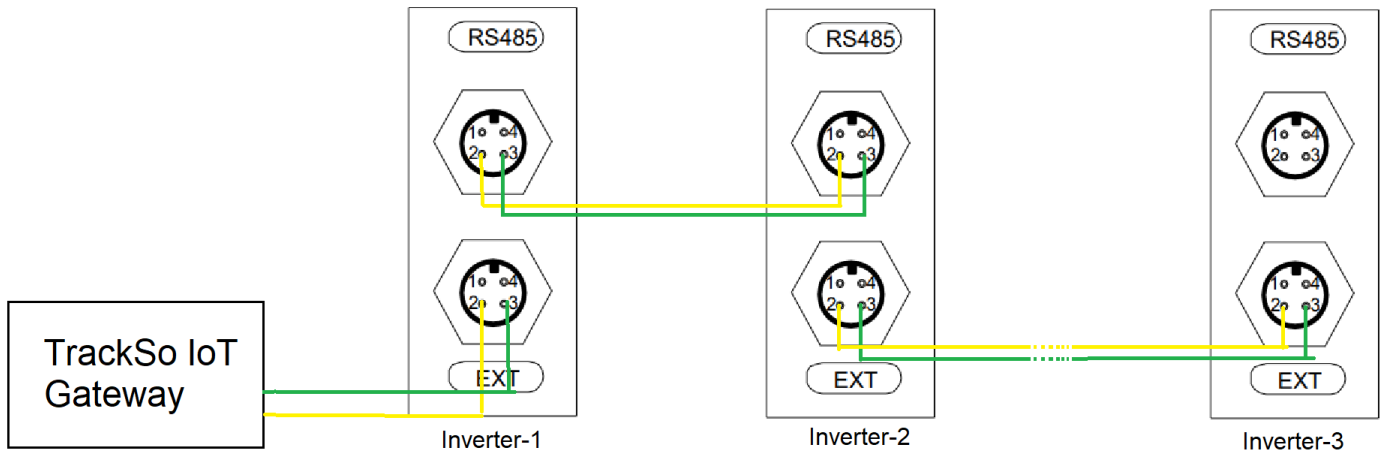
← Set the Correct Date & Time

Enter into the interface and edit the date and time through “^” or “v”. And then press “ENT” again to the next line. After editing the four bits, press “ENT” to save the edition and press “ESC” to exit.

Communication Card Settings

Multiple Inverters

If multiple INVT Inv are used, connect all Inv in daisy chain mode over the RS485 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 INVT Inverters