Brand: GoodWe
Type: Solar On Grid String Inverter
Models: GW09K-DT, GW10K-DT, GW12K-DT, GW15K-DT, GW17K-DT, GW20K-DT, GW25K-DT, GW12KLV MT,GW15KLV-MT,GW20KLV-MT,GW25K-MT,GW29.9K-MT,GW30K-MT,GW36K-MT,GW30KLS-MT,GW35KLS-MT,GW50KS-MT,GW60KS-MT,GW50KS-MT-EU,GW60KS-MT-EU
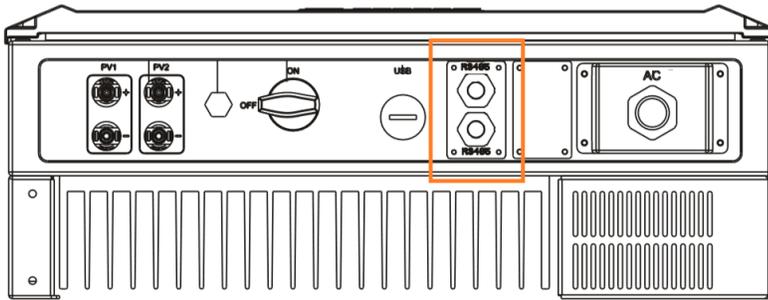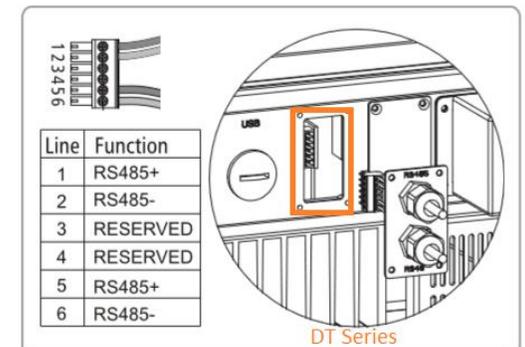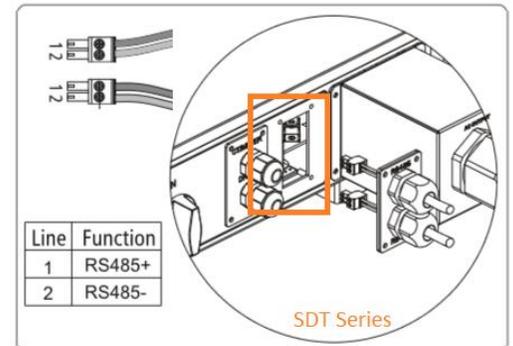
CONNECTION DIAGRAM

Type 1

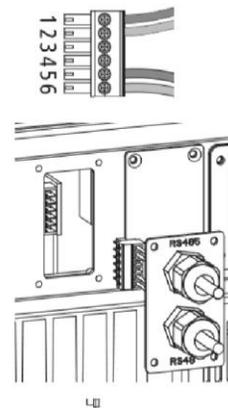*Figure D1 – GoodWe Sring Inverter Connections*

Connection Steps:

1. Please unscrew the RS485 terminal as shown in *Figure D1*.
2. Please make the connections from the Terminal Block of Goodwe RS485 chipt to TrackSo IoT Gateway as mentioned in the Table – *T1.*
3. Please provide 12V external supply to TrackSo IoT Gateway via 12V, 2A DC adaptor provided in the package.
4. The RS485 cables should be kept separate from the AC cable and the DC cables to avoid interferences.

Note: Please insure to carry 2PIN/6PIN Terminal supplied with inverters.

GoodWe Pin Assignment		TrackSo Pin Assignment	
1	RS485+	3	RS485+
2	RS485-	4	RS485-
3		NA	
4		NA	
5	RS485+	Used for	
6	RS485-	Daisy Chain	

Table T1 – GoodWe connections with TrackSo IoT Gateway

The second pair (5/6) is used to connect multiple inverters via RS485.

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

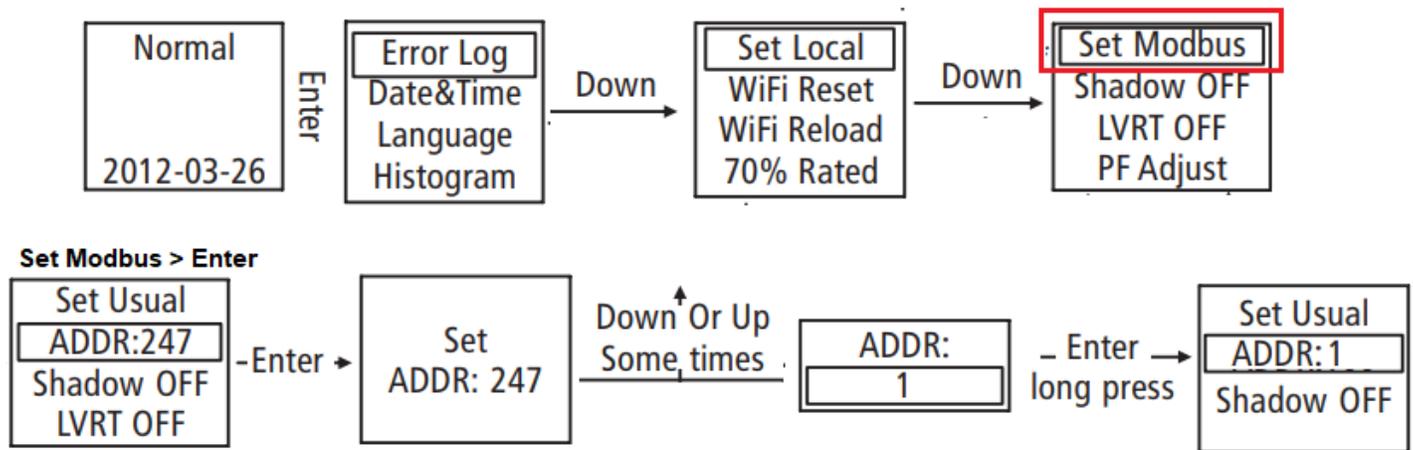## CONFIGURATION AT THE INVERTER END

SETTING THE BAUD RATE

Default Baud rate for GoodWe Inverters is 9600bps.

SETTING THE INVERTER ID

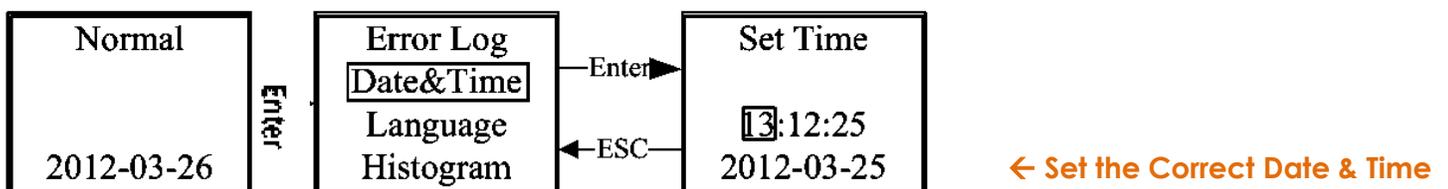The inverter ID is used to identify the inverter in a RS485 connection   **← Set correct Inverter Ids**

- 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.
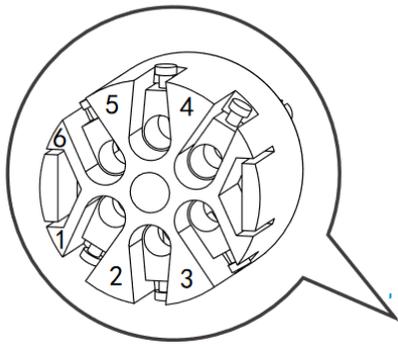

SET DATE & TIME OF INVERTER

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

Type 2: 6 pin round connector

NO.	RS485	Function
1	RS485-A1	Used to connect with inverters, smart meter, or the data logger.
2	RS485-B1	
3	RS485-A1	
4	RS485-B1	
5	RS485-A2	Reserved
6	RS485-B2	

Figure D2: GoodWe Inverter 6 pin connector & pin assignment

Source: https://en.goodwe.com/Ftp/EN/Downloads/User%20Manual/GW_SMT_User%20Manual-EN.pdf, in case you have inverter 5 pin connector , please check the above manual.
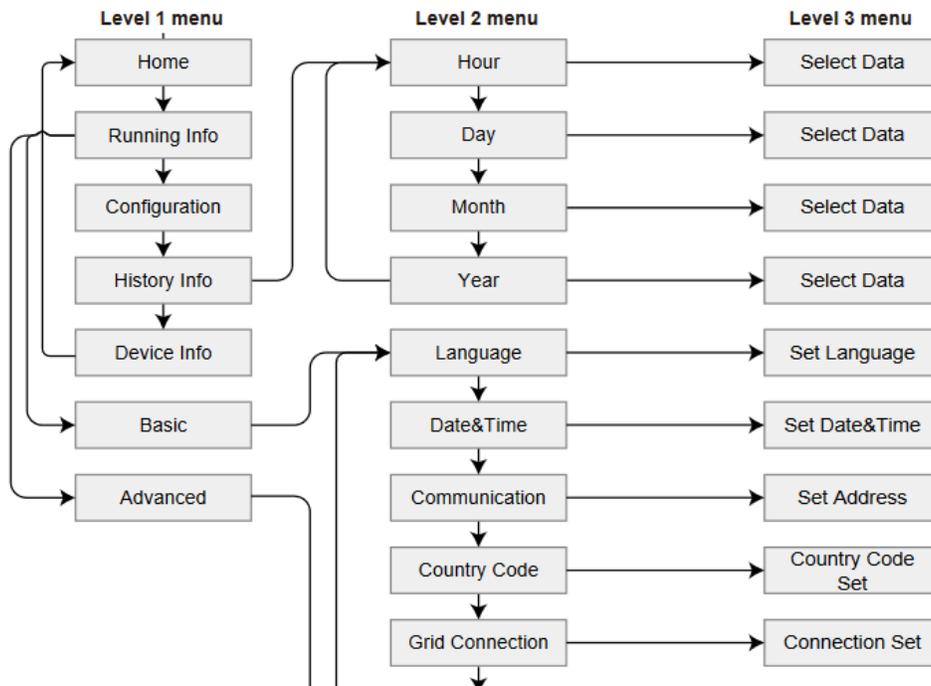
Connection Steps:

1. Please unscrew the RS485 terminal as shown in *Figure D2*
2. Please make the connections from the Terminal Block of Goodwe RS485 chipt to TrackSo IoT Gateway as mentioned in the Table – *T2.*
3. Please provide 12V external supply to TrackSo IoT Gateway via 12V, 2A DC adaptor provided in the package.
4. The RS485 cables should be kept separate from the AC cable and the DC cables to avoid interferences.

GoodWe Pin Assignment		TrackSo Pin Assignment	
1	RS485+	3	RS485+
2	RS485-	4	RS485-
3		NA	
4		NA	
5	RS485+	Used for	
6	RS485-	Daisy Chain	

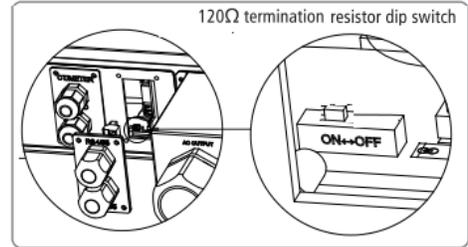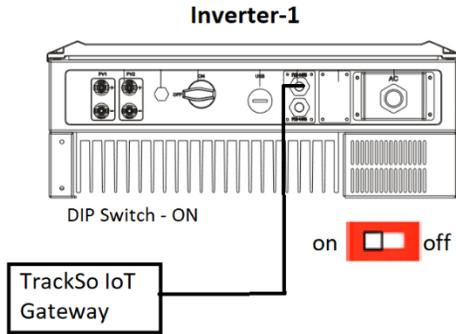*Table T2 – GoodWe connections with TrackSo IoT Gateway*

CONFIGURATION AT THE INVERTER END

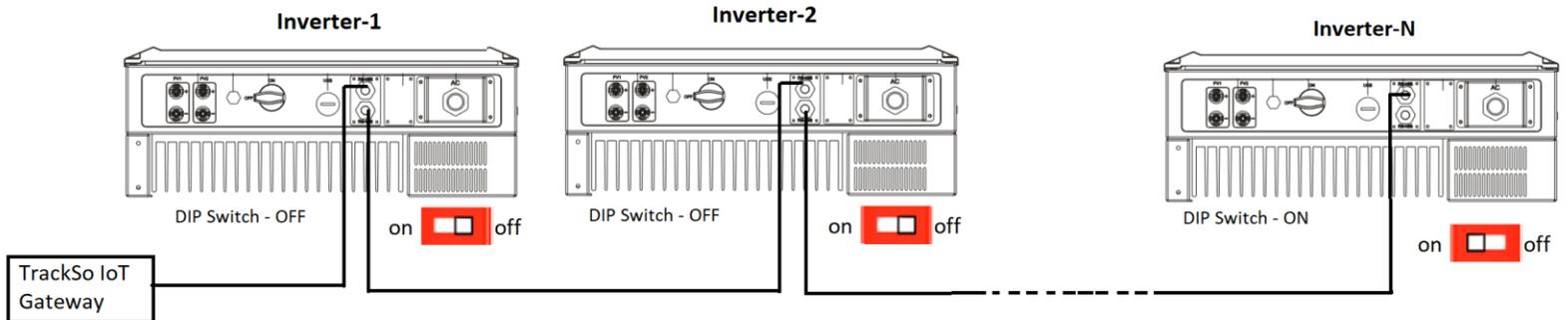Termination resistor dip switch. Available in DT only

Single Inverter

Please put ON the dip switch (The default if OFF)

Multiple Inverters

Please put ON the dip Switch in the last Inverter (The default is OFF)

The above details are mentioned in the *Installation & Operation Manual* for GoodWe Inverters.