

Solis Standard Operating Procedure

S6-EH3P50k-H- Parallel Function Setup Guide version 1.0



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1. Communication Wiring

Parallel Terminal Connections

Up to 6 inverter units of the inverter can be connected in parallel. The inverters parallel communication P-A and P-B terminals should be connected in a daisy chain configuration as per the below diagram.

E.g. Inverters Master P-A >> Slave 1 P-B || Slave 1 P-A >> Slave 2 P-B

NB. Standard CAT5/6 ethernet cable can be used.

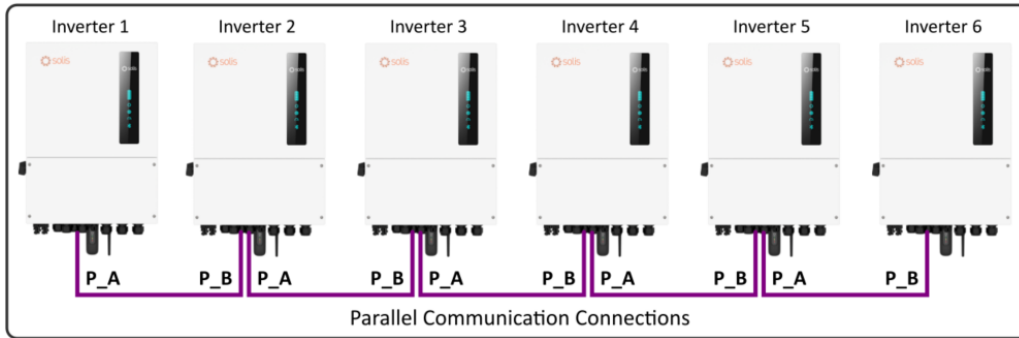


Figure 0-1 - P-A & P-B Master/Slave Wiring

The P-A and P-B communication cables are supplied with the inverter. Standard straight ethernet cables with RJ45 plugs can also be used for the parallel cables between the inverters.

2. Setting the Parallel Dip Switches

Before starting and running a parallel system ensure that both parallel dip switches 1 & 2 marked in figure 2.1-2 below are both set to the “ON” position on the first and last inverter.

These must Not be switched on or off while the machine is on.

NOTE:

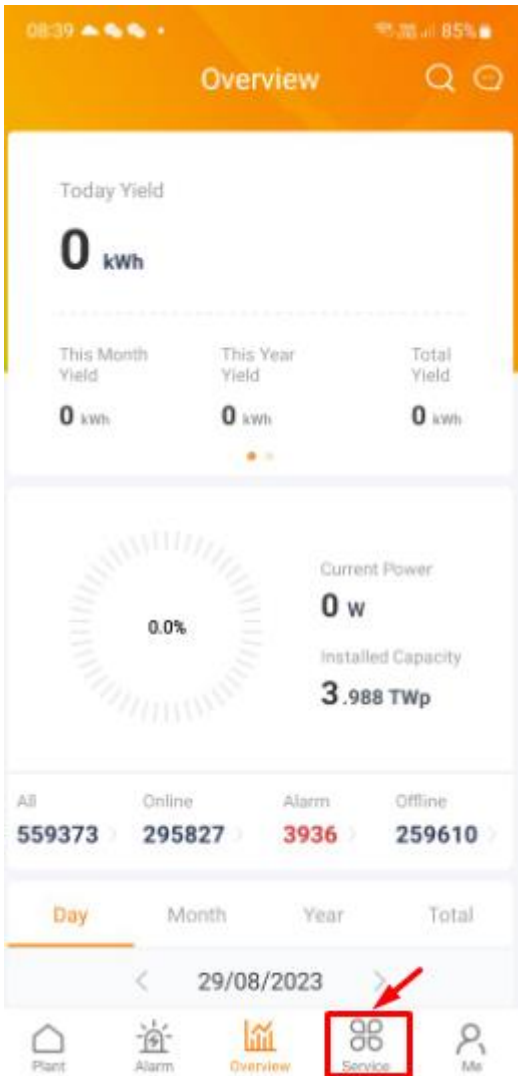
If the parallel machine is connected to the first and last consoles of the parallel connection, you need to put the DIP switch on the ARM board to ON, and the middle machine is all OFF.

The note is accompanied by a warning symbol (a yellow triangle with a black exclamation mark) and a close-up photograph of an ARM board. Two DIP switches are visible on the board, labeled '1' and '2'. Both switches are shown in the 'ON' position.

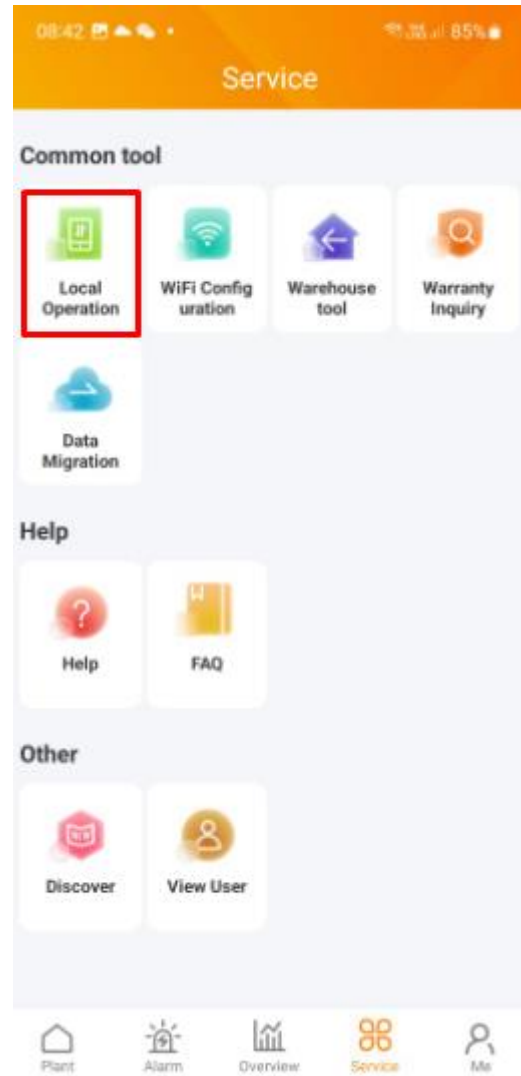
Figure 0-1 – Parallel dipswitch settings

3. Connecting to the Inverter via Bluetooth

Step 1: Open Solis Cloud App and select the “Services” icon as per below.



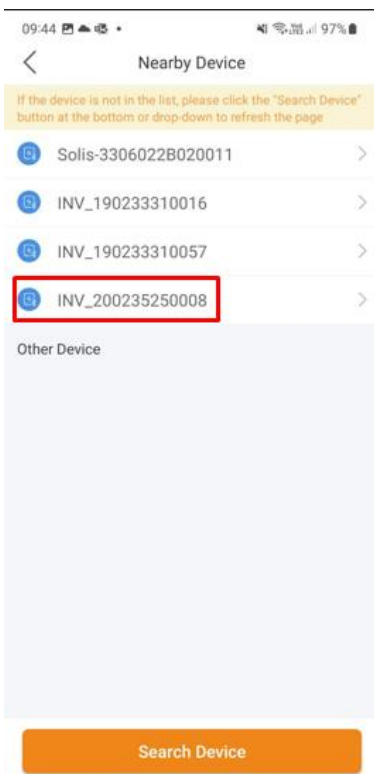
Step 2: Select the “Local Operations” menu



Step 3: Select “Connect with Bluetooth” option

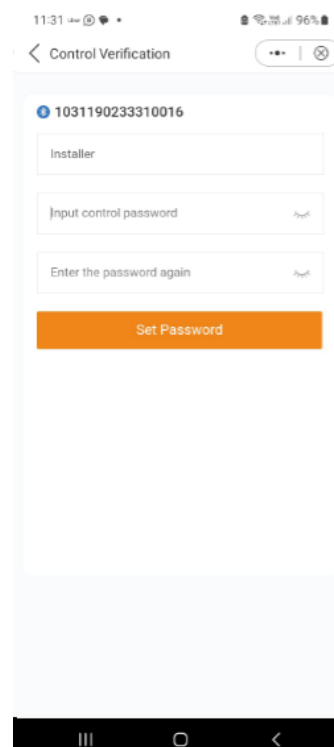


Step 4: Select the correct inverter serial number



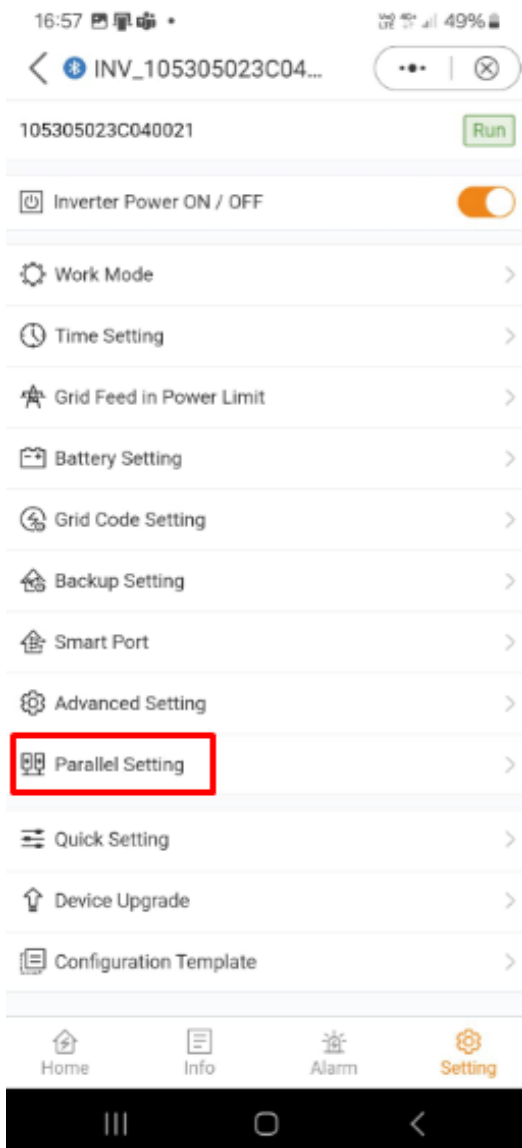
Step 5: Log into the inverter

NB. First time users must create a password

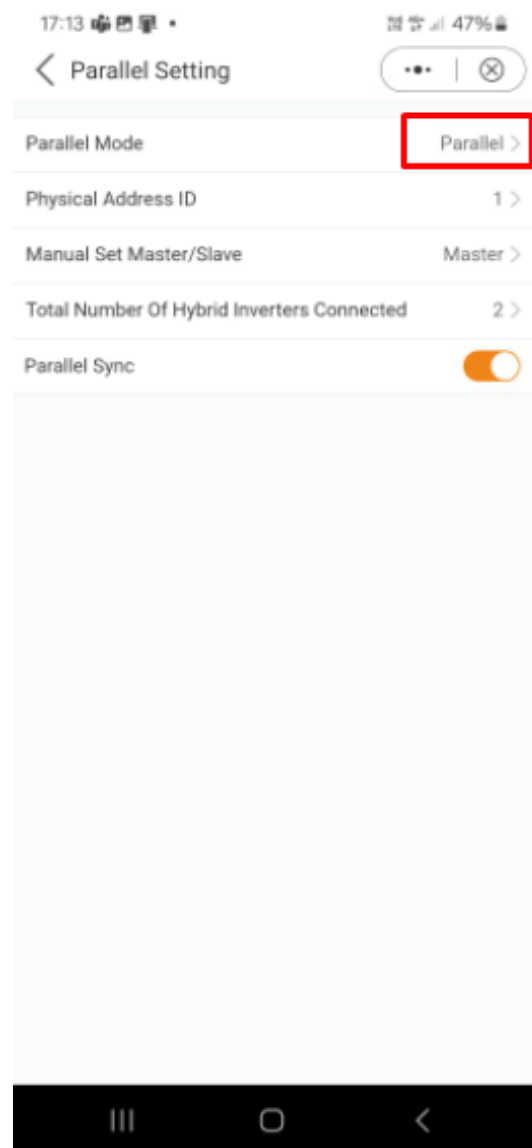


4. Master Inverter Parallel Settings

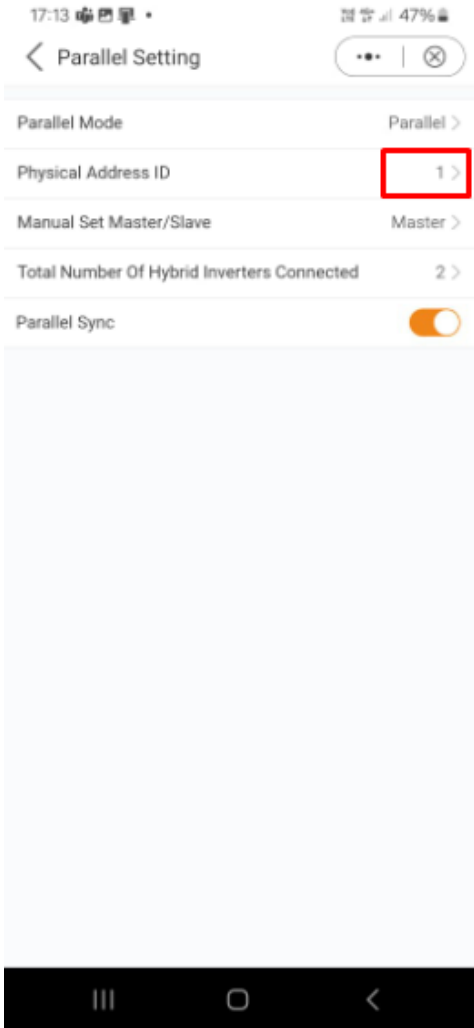
Step 1: Select “Parallel Setting” menu



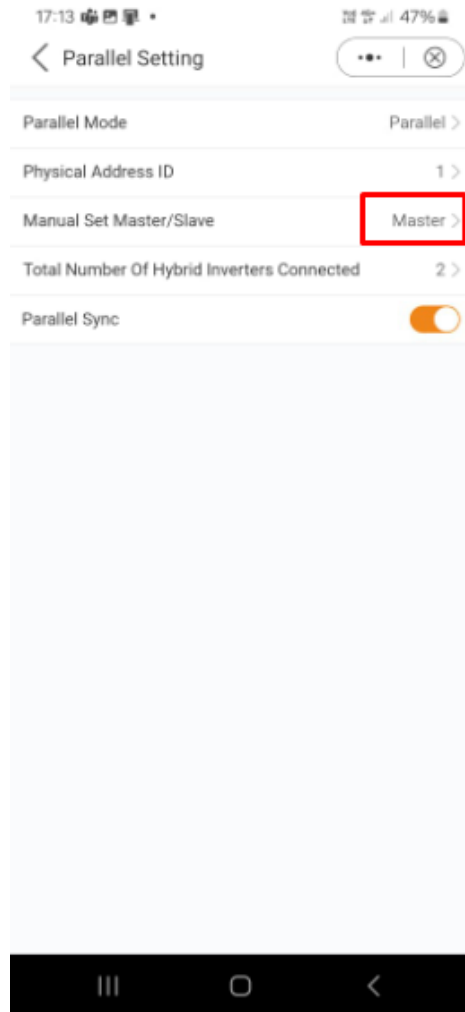
Step 2: Set Parallel Mode to “Parallel”



Step 3: Set “Physical Address ID” to next # sequence

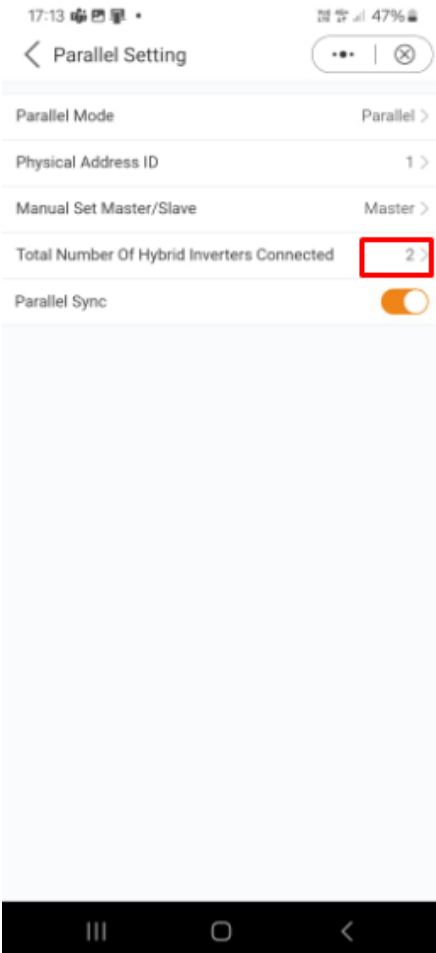


Step 4: Set Manual Master/Slave to “Master”

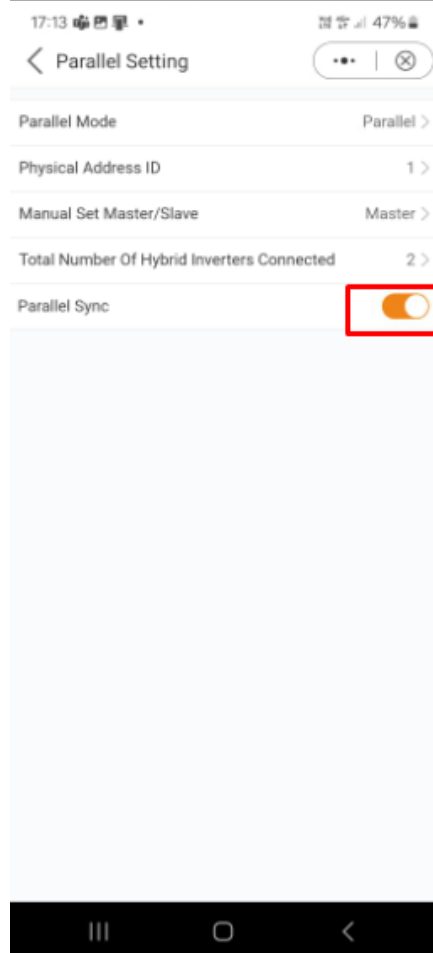


”

Step 5: Set the Total Number of inverters



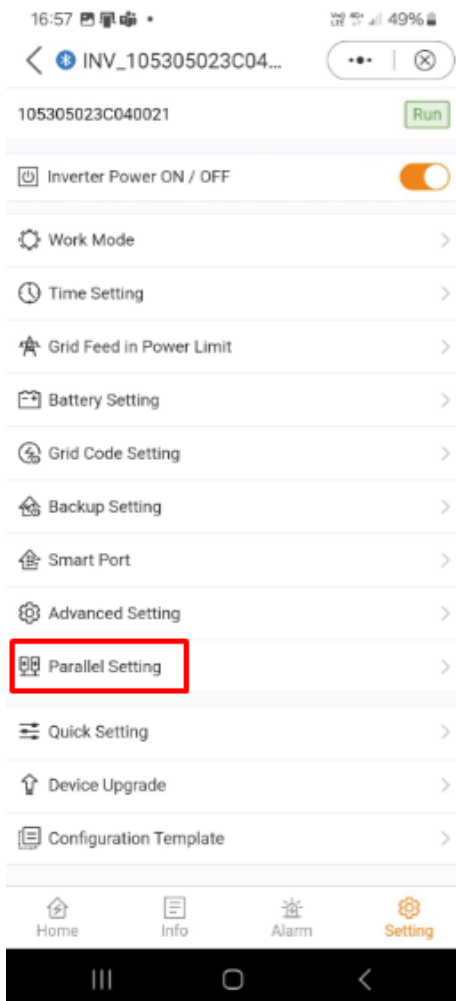
Step 6: Turn Parallel Sync “On”



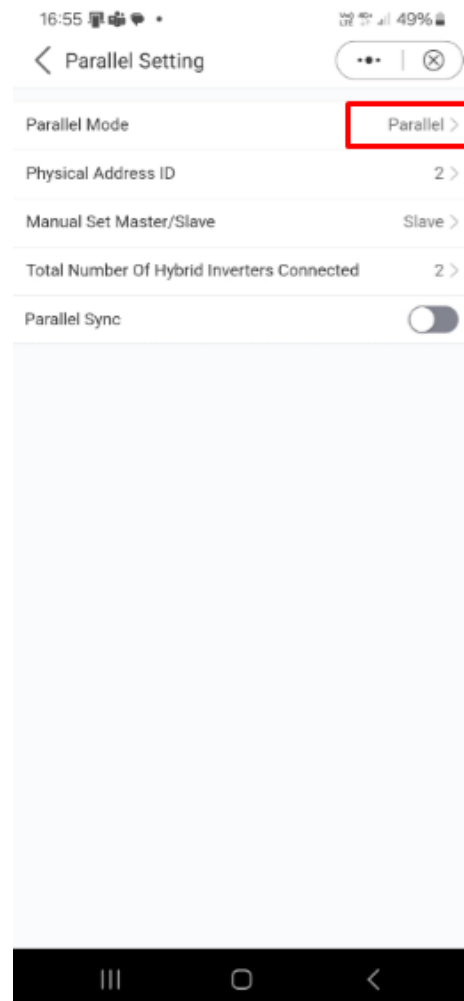
NB. These settings should be completed with “Parallel Sync” set to the “On” position

5. Slave Inverter Parallel Settings

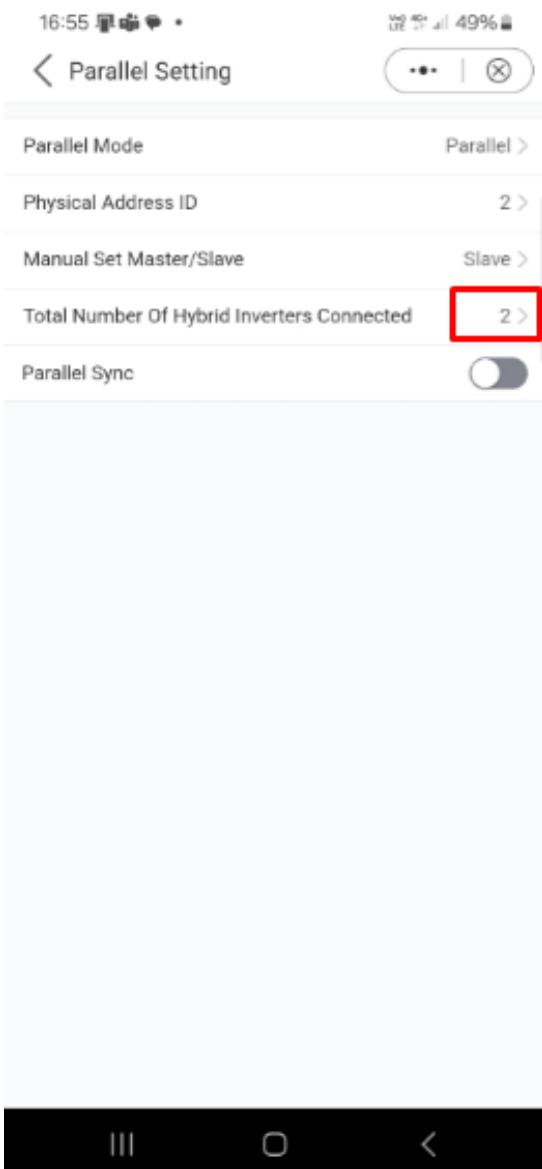
Step 1: Select "Parallel Setting" menu



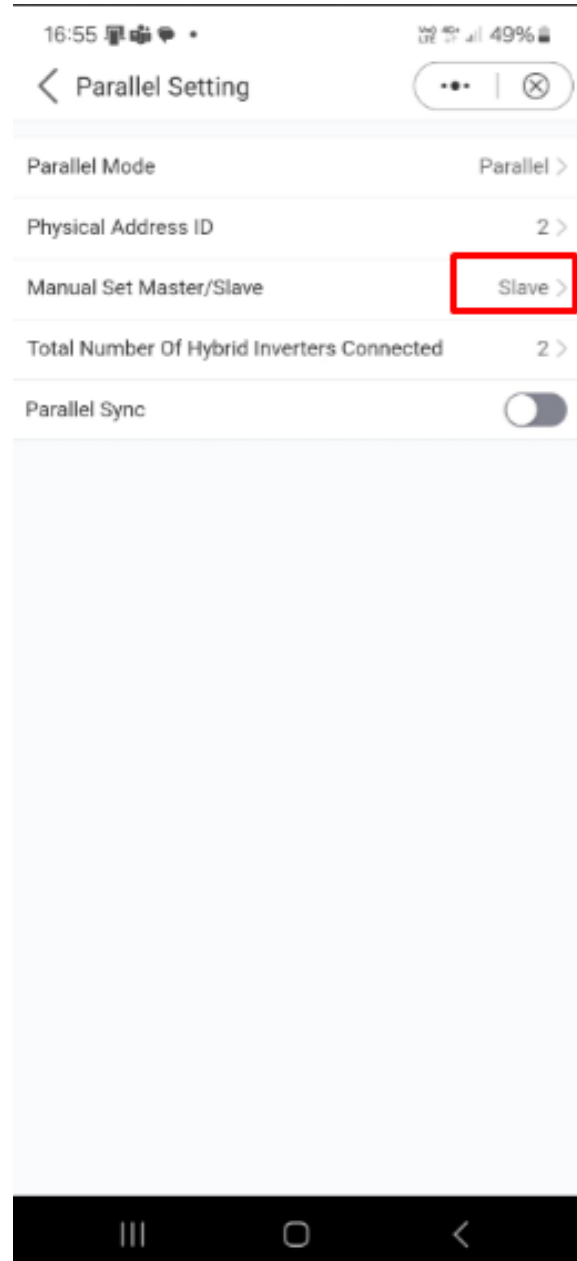
Step 2: Select "Parallel" from the Parallel Mode menu



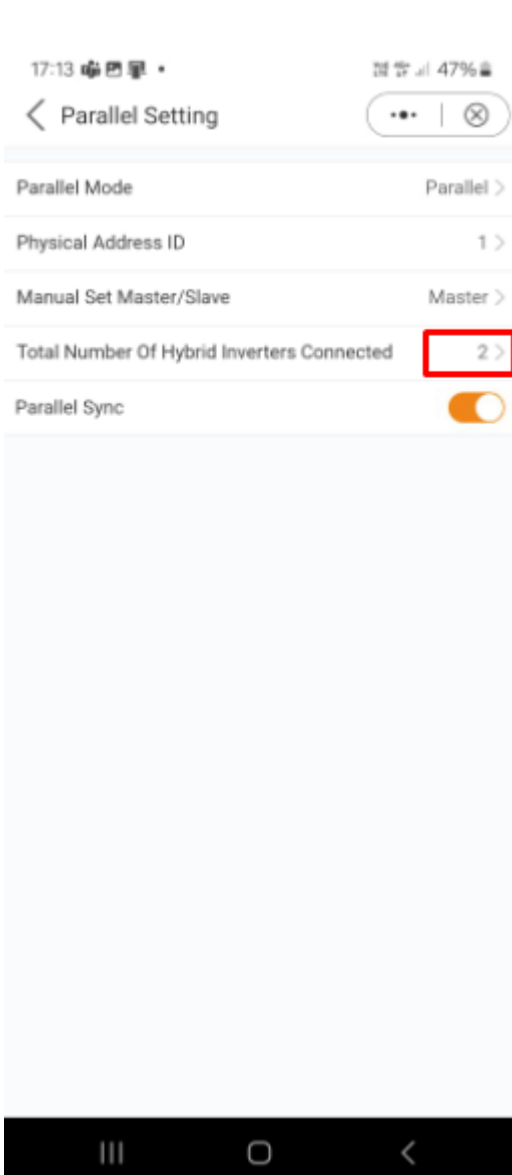
Step 3: Set “Physical Address ID” to next # sequence



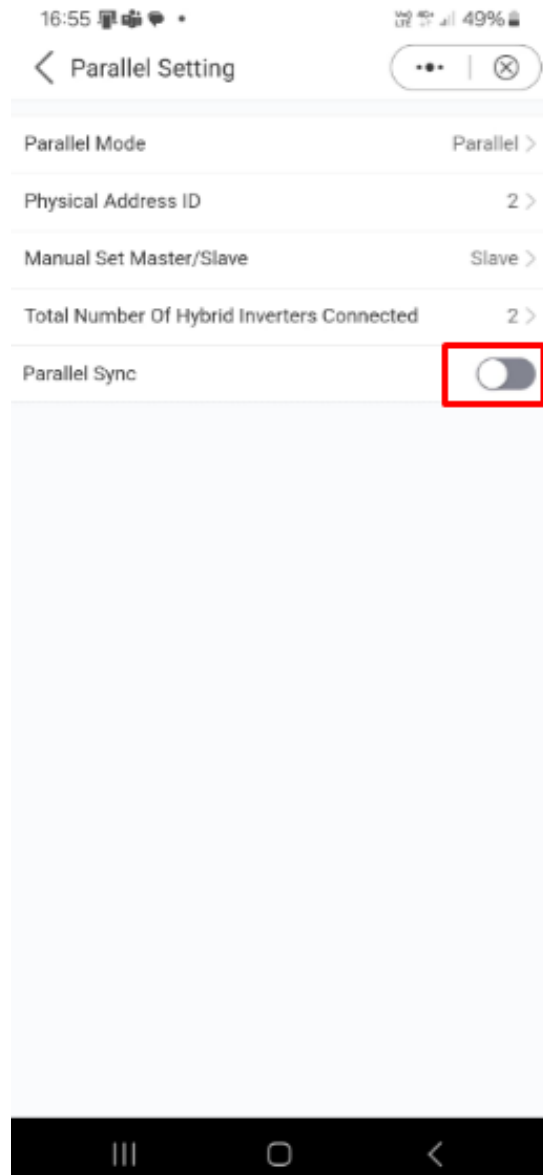
Step 4 : Set Manual Master/Slave to “Slave”



Step 5: Set the Total Number of inverters



Step 6 : Turn off “Parallel Sync”



NB. These settings should be completed with “Parallel Sync” set to the “Off” position on the slave inverters.