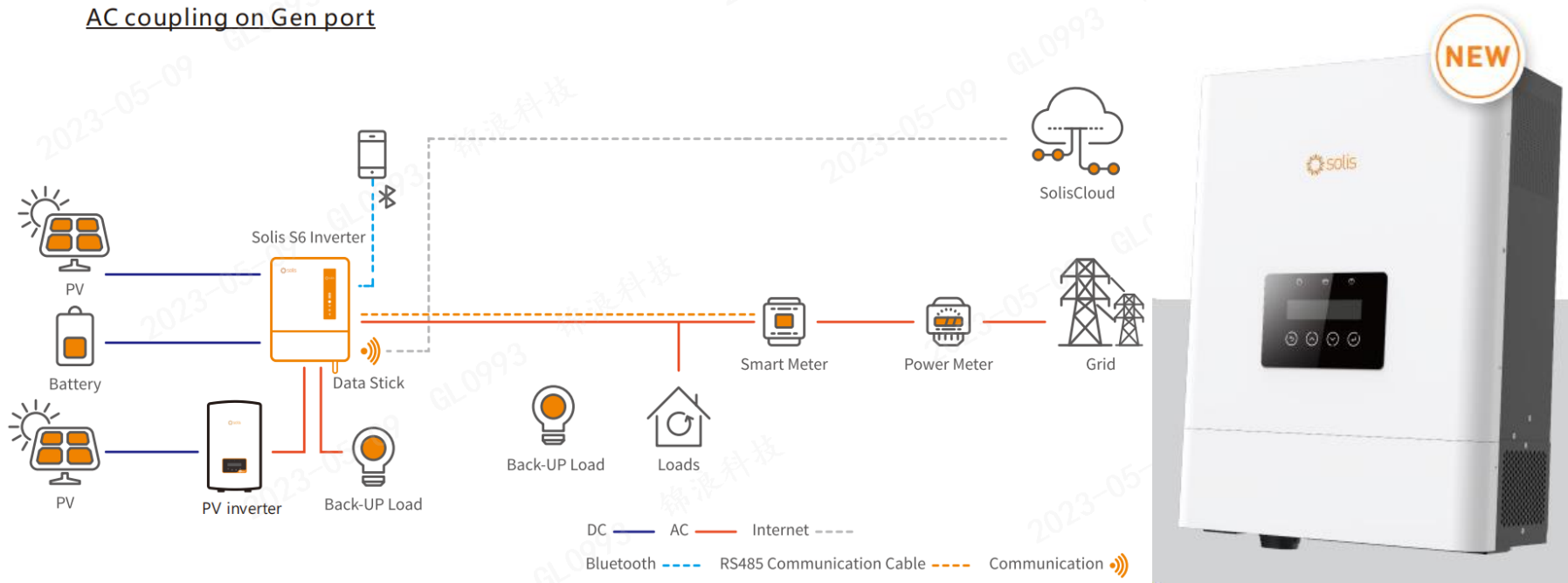


Solis Standard Operating Procedure

S6 5K-8K AC Coupling Setup Guide

AC coupling on Gen port



1. Overview

This document explains the process of AC Coupling when a Grid-Tied PV inverter is connected to either the backup output or the generator port of a S6 Solis Off-grid inverter as displayed in the diagrams below.

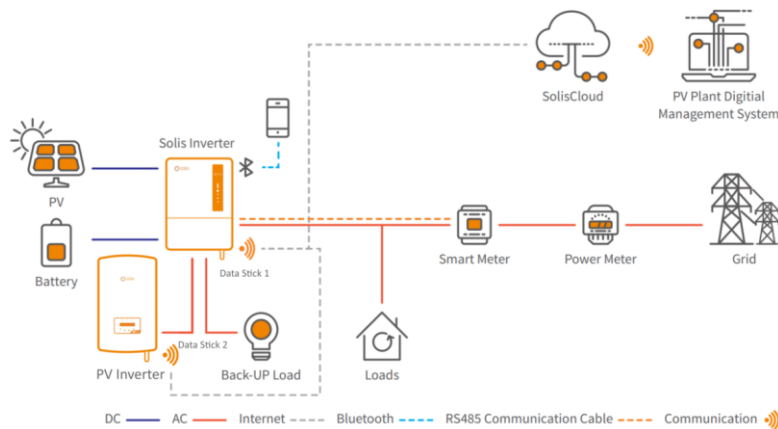
Inverters can be connected to the AC Backup port when a Generator is connected to the Generator port.

Step 1 - Logging into the Off-grid Inverter locally.

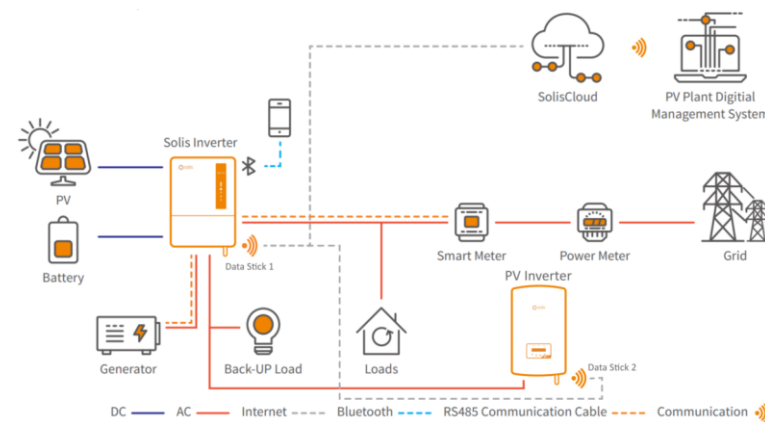
Step 2 – Off-grid Inverter Parameter Settings

Step 3 – Setting up the PV Grid-Tied Inverter

AC Coupled with No Generator



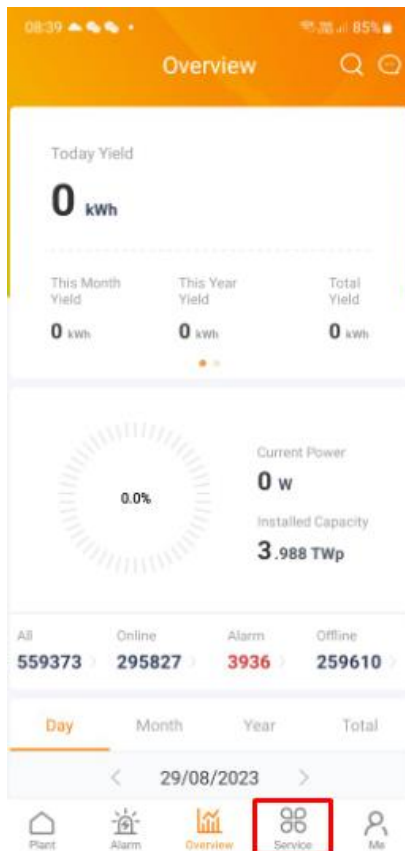
AC Coupled with Generator



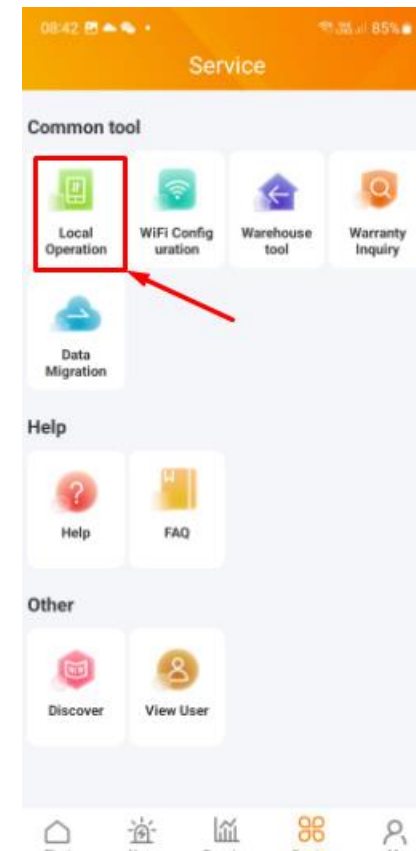
2. Method

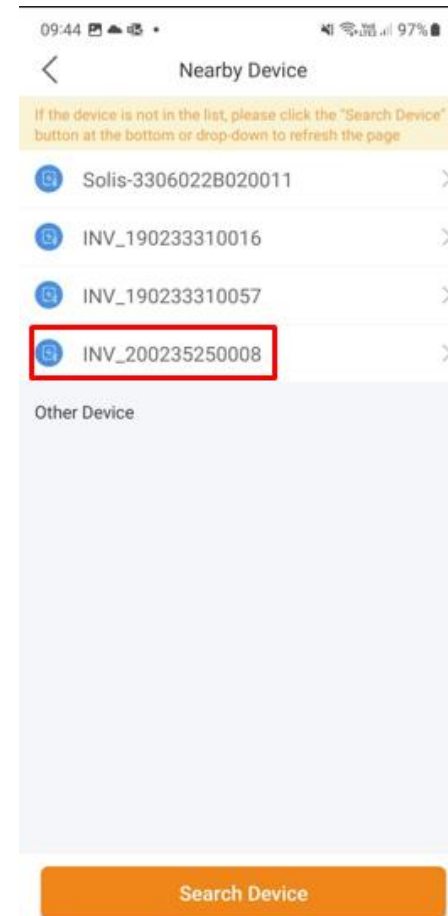
Step 2.1: Login to Inverter

Open the Solis cloud App then click on the **“Services”** icon below



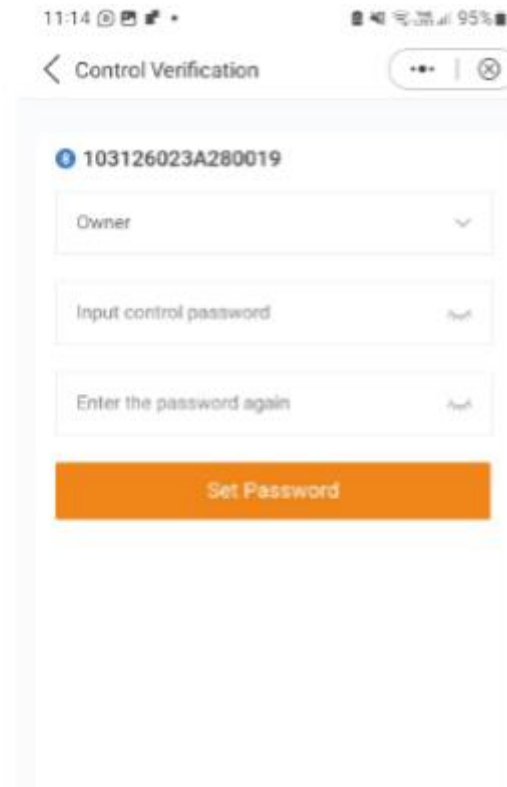
Step 2.2: Select Local Operation



Step 2.4: Select Connect with Bluetooth**Step 2.4 Select Bluetooth connection****Step 2.5: Select the inverter by serial number.**

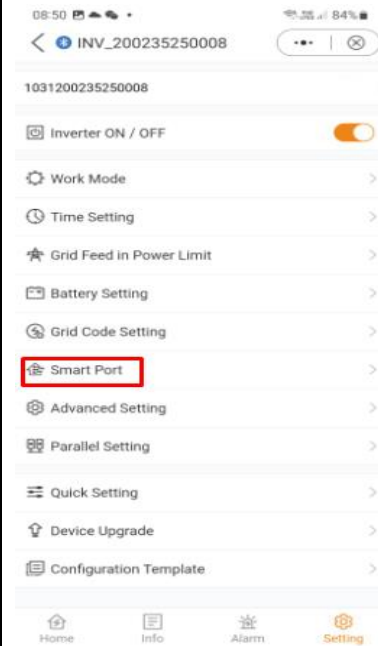
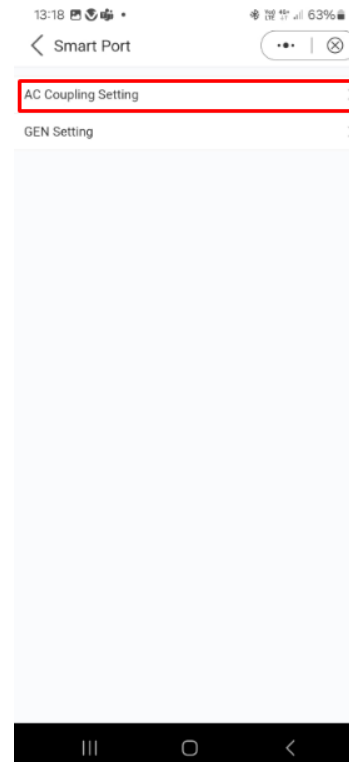
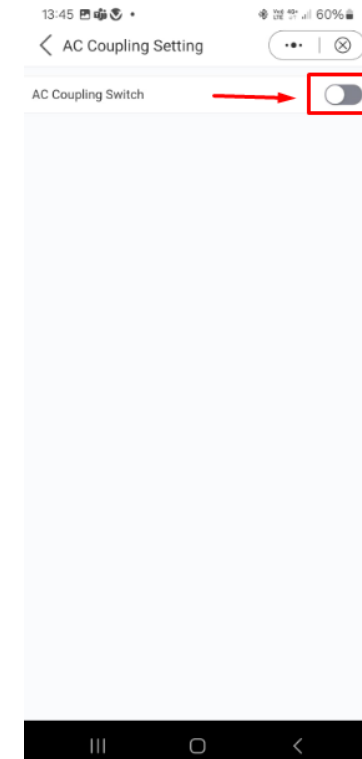
Step 2.6: log into the inverter

(First time user must create a password)

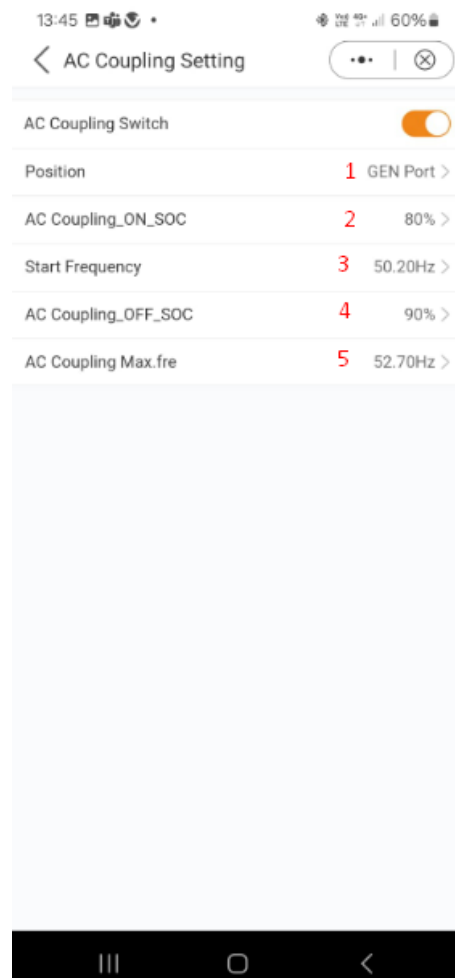


The screenshot shows a mobile application interface for 'Control Verification'. At the top, the status bar displays the time 11:14 and battery level 95%. The app header includes a back arrow, the title 'Control Verification', and a close button. Below the header, a blue circular icon with a white 'i' is next to the identifier '103126023A280019'. The form contains three input fields: 'Owner' with a dropdown arrow, 'Input control password' with a strength indicator, and 'Enter the password again' with a strength indicator. An orange 'Set Password' button is positioned below the input fields.

3. AC Coupling Settings on the S6-Hybrid Inverter

Step 3.1: Select the AC Couple Settings for Set up settings**Step 3.2: Switch the AC Coupling switch setting on, as per below screenshot.****Step 3.3 Enable the AC Coupling switch**

Step 3.4 Set the parameters for AC Coupling

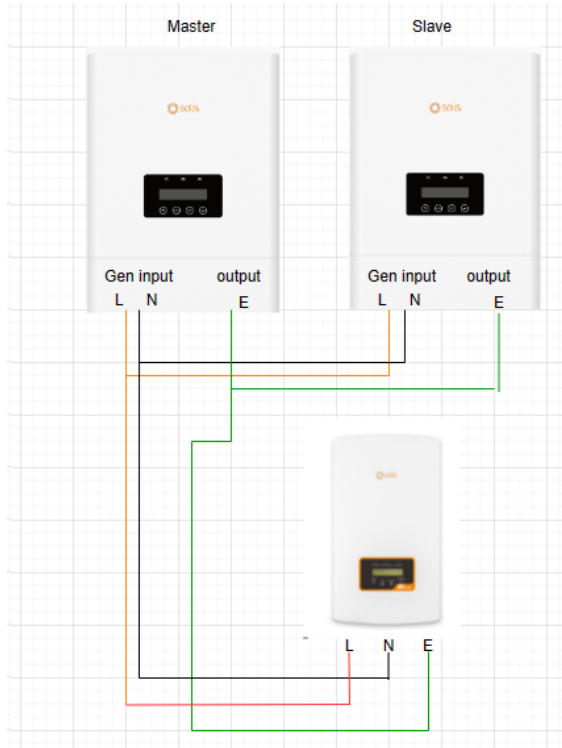


Parameter Settings

1. AC Coupling switch must be turned on.
2. Two positions for connecting the grid-tied inverter as possible depending on whether a generator is used or not.
 - a. Gen Port: Set the Gen Port position if the grid-tied inverter is installed on the inverter's generator port.
 - b. Backup Port: Set the Backup position when the grid-tied inverter is coupled to the inverter's backup output.
3. AC Coupling OFF SOC must be set to the required percentage.
4. AC Coupling Max value is the Stop value of 52.7Hz set on the battery inverter and must be set the same on the AC PV inverter.
Example: Start 51Hz and Stop 52.7Hz

Recommended AC Wiring

When AC Coupling in a parallel system the PV inverter Live and Neutral between the 2 Off Grid inverters must be in parallel, see below SLD



4. Settings on the PV Inverter

See Below images as reference on AC PV Inverter.

4.1: Enter Advanced Settings > Select Grid Standard



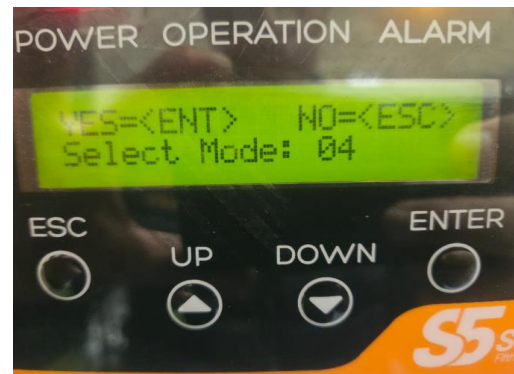
4.2: Select Grid Code: GEN 50



4.3: STD Mode Settings



4.4: Mode 4



4.5: Freq Derate Set



4.6: Set the start and stop values.



5. AC Coupling Test Example

The below diagram shows an monitoring example layout and operation of an AC coupled plant on Solis Cloud.

