

## Single Phase Inverter – Grid Code Set-Up

### Introduction

This standard operating procedure (SOP) details the steps that are required to change the default grid code setting of a Zeversolar single phase inverter.

### Assumed Knowledge

This guide assumes the following:

- A Zeversolar single phase inverter has been installed;
- The installation manual has been read and fully understood.

### IMPORTANT – CHECK GRID CODE SETTING DURING COMMISSIONING!

The grid code setting should be checked during the commissioning of a PV plant. It is essential to ensure that the correct grid code/safety setting has been selected for the relevant region. Each Zeversolar inverter is set to a default grid code which is based on the serial number suffix that can be found on the label affixed to the inverter and its packaging, see Figure 1 below.



Figure 1 - Serial Number with UK Suffix

Inverters shipped to Europe have three distinct suffixes and as such the default grid code is set accordingly, please see Table 1.

S/N Suffix	Default Grid Code
DE	VDE-AR-N-4105
UK	G83/2 or G59/3
NL	NEN 50438

Table 1 - Default Grid Code Settings

Therefore it is *necessary* to check the serial number suffix and ensure that the correct grid code is set. For example, an inverter being installed in the UK may have the DE suffix, in this case the inverter grid code should be changed from the “VDE-AR-N-4105” grid code to the relevant UK grid code “G83/2 or G59/3.”

## When is Changing the Grid Code Required

As mentioned above it is necessary to change the grid code if the inverter is not installed in the region to which the default grid code is set to. The grid code should also be changed if the inverter is installed in the following countries:-

- Austria, Belgium, France, Greece, Northern Ireland, Poland, Republic of Ireland, Switzerland, Turkey.

*Please note: please refer to the Certificate Overview available from the Zeversolar website to determine in which regions the Zeversolar inverters are certified.*

## Hardware Requirements

- Eversol TL – please note that this series of inverter has been discontinued;
- Zevelution S;
- Evershine TL.

## Grid Code Set-Up

It is necessary to ensure that the inverter has been isolated from the AC supply. To change the grid code please follow the steps outlined in Table 2.

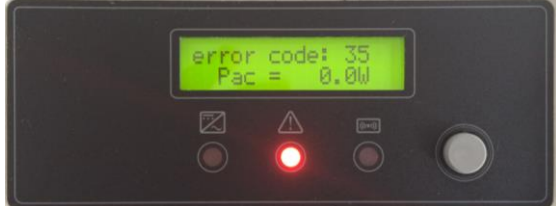



Steps	Images
<p>1. Navigate to the “Inverter Model” screen by pressing the control button on front panel.</p>	
<p>2. When the “Inverter Model” screen is displayed, press and hold the control button for approximately 10 seconds.</p>	
<p>3. The default grid code will now be shown on the LCD. The image to the right shows an inverter with the German default grid code setting.</p>	
<p>4. To change the grid code setting, press the control button repeatedly until the desired grid code is displayed on the LCD. As an example the “GB G83/2” is displayed. To confirm the grid code simply release the control button and wait until the “Normal” screen is displayed.</p>	

Table 2 - Firmware Version Check

## Zeversolar Contact Details

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