



SUNNY BOY / SUNNY TRIPOWER / SUNNY BOY STORAGE / SUNNY ISLAND

Only applies to Ireland: Parameter settings to assure compliance with EN 50549-1:2018 including the adjustments as per DTIS-230206-BRL

This document describes how to set the parameters to assure compliance with standard EN 50549-1:2018 including the deviations for Ireland as they are defined in the document "Conditions Governing the Connection and Operation of Micro-generation Policy (DTIS-230206-BRL)". Only qualified persons are allowed to set the parameters.


This document is valid for:

- SB1.5-1VL-40 / SB2.0-1VL-40 / SB2.5-1VL-40
- SB3.0-1AV-41 / SB3.6-1AV-41 / SB4.0-1AV-41 / SB5.0-1AV-41 / SB6.0-1AV-40
- STP3.0-3AV-40 / STP4.0-3AV-40 / STP5.0-3AV-40 / STP6.0-3AV-40 / STP8.0-3AV-40 / STP10.0-3A40
- STP 15000TL-30 / STP 17000TL-30 / STP 20000TL-30 / STP 25000TL-30
- STP 50-40 / STP 50-41
- SBS2.5-1VL-10
- SBS3.7-10 / SBS5.0-10 / SBS6.0-10
- SI4.4M-13 / SI6.0H-13 / SI8.0H-13

Requirements:

- The inverter must be equipped with an integrated webserver or registered in a communication product.
- In case of an integrated webserver, an end device (e.g. computer, tablet PC or smartphone) must be available (see inverter operating manual).
- In case of a communication product, depending on the type of communication, a computer with BLUETOOTH or Ethernet interface must be available (see operating manual of the communication product).
- You must have an SMA Grid Guard code. You can request the SMA Grid Guard code via the Online Service Center.

Procedure:

1. Go to the user interface of the inverter or communication product.
2. Log in as an **Installer**.
3. Enter the SMA Grid Guard code.
4. Check whether the country data set **[EU] EN50549-1:2018 LV** is available.
5. If the country data set **[EU] EN50549-1:2018 LV** is not available, carry out a firmware update (see inverter operating manual).
6. Select the country data set **[EU] EN50549-1:2018 LV**.
7.  **Finding parameters via display group**
In the parameter list of the inverter, a **Display group** is assigned to each parameter. The **Display group** indicates the path via which the parameter in the user interface of the inverter or the communication product can be found.

8. Set the following parameters:

| Object name | Definition | Value to be set |
|-------------------------------------|--|-----------------|
| GridGuard.Cntry.VolCtl.hLimPu | Voltage monitoring, lower maximum threshold | 1.1 p.u. |
| GridGuard.Cntry.VolCtl.hLimTmms | Voltage monitoring, lower max. threshold trip. time | 500 ms |
| GridGuard.Cntry.VolCtl.lLimPu | Voltage monitoring, upper minimum threshold | 0.9 p.u. |
| GridGuard.Cntry.VolCtl.lLimTmms | Voltage monitoring, upper min. threshold trip. time | 500 ms |
| GridGuard.Cntry.FrqCtl.hLim | Frequency monitoring, lower maximum threshold | 52 Hz |
| GridGuard.Cntry.FrqCtl.hLimTmms | Frequency monitoring, lower maximum threshold, tripping time | 500 ms |
| GridGuard.Cntry.FrqCtl.lLim | Frequency monitoring, upper minimum threshold | 47 Hz |
| GridGuard.Cntry.FrqCtl.lLimTmms | Frequency monitoring, upper maximum threshold, tripping time | 20000 ms |
| GridGuard.Cntry.Aid.HzMon.HzMonTmms | Islanding detection, tripping time of frequency monitoring | 500 ms |

9. Save the parameter setting.

10. Document all changes (e.g. on the supplementary sheet with the default settings).