



**Only applies to Northern Ireland: Parameter settings to assure compliance with G99/NI-1 for systems of type A**

This document describes how to set the parameters to assure compliance with G99/NI-1 for systems of type A. The parameters may only be set by qualified persons.

This document is valid for:

- STP 15000TL-30 / STP 17000TL-30 / STP 20000TL-30 / STP 25000TL-30
- STP 50-40
- STP 50-41

**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 **[GB] ENA-EREC-G99/1:2018** is available.
5. If the country data set **[GB] ENA-EREC-G99/1:2018** is not available, carry out a firmware update (see inverter operating manual).
6. Select the country data set **[GB] ENA-EREC-G99/1:2018**.
7. **i 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 for voltage monitoring:

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	0.85 p.u.

Object name	Definition	Value to be set
GridGuard.Cntry.VolCtl.lLimTmms	Voltage monitoring, upper min. threshold trip. time	3000 ms
GridGuard.Cntry.VolCtl.lLimPu	Voltage monitoring, median minimum threshold	0.6 p.u.
GridGuard.Cntry.VolCtl.lLimTmms	Voltage monitoring, median minimum threshold, tripping time	2000 ms
GridGuard.Cntry.VolCtl.ReconMaxPu	Maximum connection voltage	1.1 p.u.
GridGuard.Cntry.VolCtl.ReconMinPu	Minimum connection voltage	0.85 p.u.

9. Set the following parameters for frequency monitoring:

Object name	Definition	Value to be set
GridGuard.Cntry.FrqCtl.hLimTmms	Frequency monitoring, lower maximum threshold, tripping time	1000 ms
GridGuard.Cntry.FrqCtl.lLim	Frequency monitoring, upper minimum threshold	48 Hz
GridGuard.Cntry.FrqCtl.lLimTmms	Frequency monitoring, upper minimum threshold, tripping time	500 ms
GridGuard.Cntry.FrqCtl.ReconMin	Minimum connecting frequency, lower frequency limit for reconnection after grid disconnection	48 Hz

10. Set the following parameters for the P(f) characteristic curve:

Object name	Definition	Value to be set
Inverter.WCtlHzModCfg.RefModOv	P(f), reference value for active power in case of overfrequency	WSnpt
Inverter.WCtlHzModCfg.WCtl-HzCfg.HzOvStop	P(f), reset overfrequency	50.2 Hz
Inverter.WCtlHzModCfg.WCtl-HzCfg.HzOv	P(f), kink overfrequency	50.2 Hz
Inverter.WCtlHzModCfg.WCtl-HzCfg.HzOvGra	Active power change per Hz in case of overfrequency	-50 %

11. Save the parameter setting.

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