

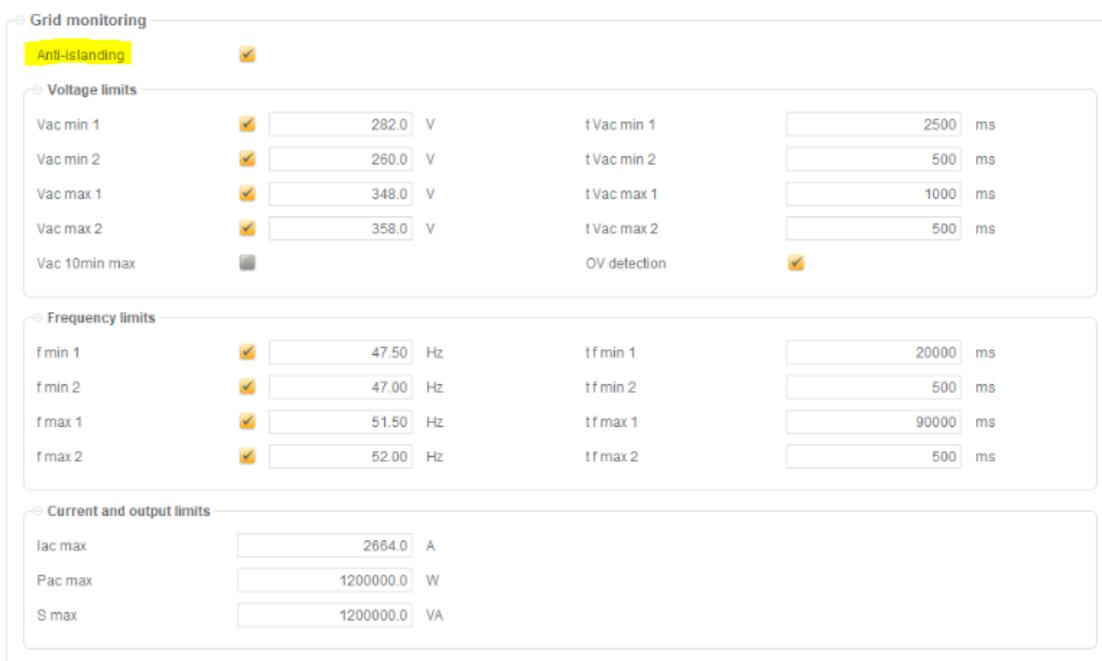
SolarMax Inverters

The Programme believes that Solarmax inverters of sizes 15kW and below were sold in GB with settings that remain compliant, although the Programme has been unable to confirm this with Solarmax. The Programme accepts that Solarmax inverters of 15kW and smaller are likely to be compliant and that no changes are needed. However if new information comes to light that shows this not to be true in some cases, the responsibility for ensuring compliance remains with the owner.

For inverters of larger than 15kW the Programme has not been able to establish full details of loss of main settings, but does know that it is possible to ensure that the loss of mains protection is disabled, and in the absence of information from the manufacturer, this is the approach that should be taken.

The Programme believes that some units might have been supplied with incorrect over frequency settings (or which have been inappropriately adjusted on site).

The Programme is aware that some SolarMax inverters can be set up with the appropriate software, and that it presents setting screens like this:



The screenshot shows a settings interface for a SolarMax inverter. It is divided into several sections:

- Grid monitoring:**
 - Anti-islanding:
- Voltage limits:**
 - Vac min 1: 282.0 V
 - Vac min 2: 260.0 V
 - Vac max 1: 348.0 V
 - Vac max 2: 358.0 V
 - Vac 10min max:
 - t Vac min 1: 2500 ms
 - t Vac min 2: 500 ms
 - t Vac max 1: 1000 ms
 - t Vac max 2: 500 ms
 - OV detection:
- Frequency limits:**
 - f min 1: 47.50 Hz
 - f min 2: 47.00 Hz
 - f max 1: 51.50 Hz
 - f max 2: 52.00 Hz
 - t f min 1: 20000 ms
 - t f min 2: 500 ms
 - t f max 1: 90000 ms
 - t f max 2: 500 ms
- Current and output limits:**
 - Iac max: 2664.0 A
 - Pac max: 1200000.0 W
 - S max: 1200000.0 VA

Note that other variants of software and displays might exist. The responsibility for identifying the relevant settings and ensuring they are correct rests with the owner.

Owners should confirm that all the settings are correct for GB (ie correct frequency settings applied, and that any anti-islanding protection is set to off (ie unticked in the example above). It is possible that some inverters have RoCoF (ie df/dt) settings. These should be set to INACTIVE if present.

It is the owner's responsibility to arrange that all these settings are correct that that the owner is able to confirm they are in compliance with EREC G39/3-7.