

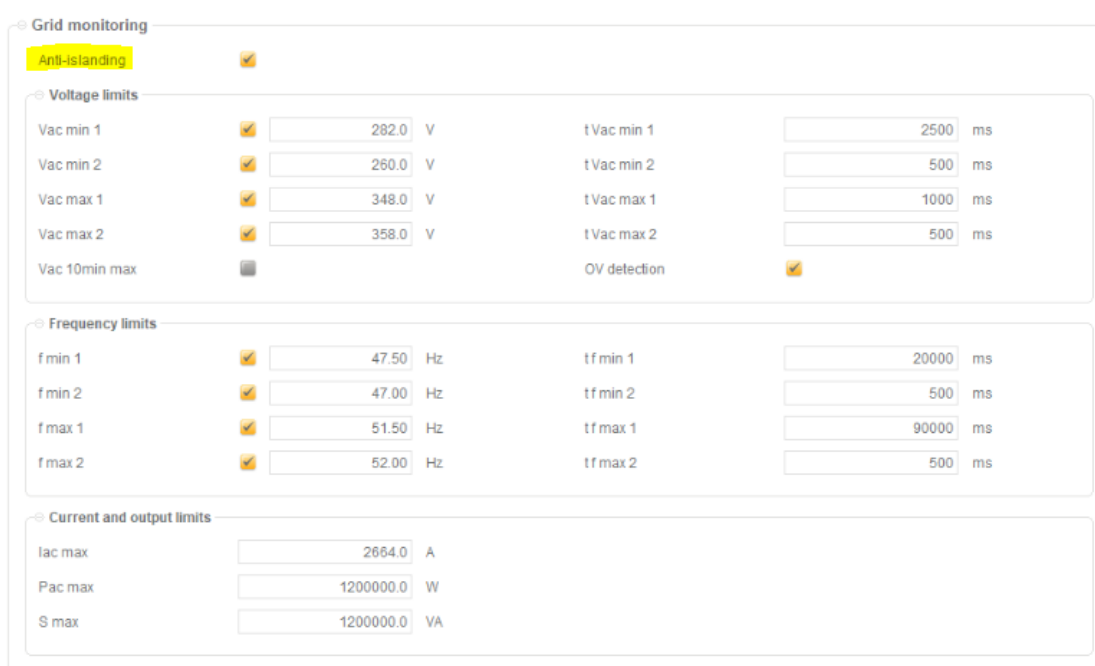
SolarMax Inverters

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:



Grid monitoring

Anti-islanding ☒

Voltage limits

| | | | | |
|---------------|-------------------------------------|---------|--------------|--------------------------------------|
| Vac min 1 | <input checked="" type="checkbox"/> | 282.0 V | t Vac min 1 | <input type="text" value="2500"/> ms |
| Vac min 2 | <input checked="" type="checkbox"/> | 260.0 V | t Vac min 2 | <input type="text" value="500"/> ms |
| Vac max 1 | <input checked="" type="checkbox"/> | 348.0 V | t Vac max 1 | <input type="text" value="1000"/> ms |
| Vac max 2 | <input checked="" type="checkbox"/> | 358.0 V | t Vac max 2 | <input type="text" value="500"/> ms |
| Vac 10min max | <input type="checkbox"/> | | OV detection | <input checked="" type="checkbox"/> |

Frequency limits

| | | | | |
|---------|-------------------------------------|----------|----------|---------------------------------------|
| f min 1 | <input checked="" type="checkbox"/> | 47.50 Hz | tf min 1 | <input type="text" value="20000"/> ms |
| f min 2 | <input checked="" type="checkbox"/> | 47.00 Hz | tf min 2 | <input type="text" value="500"/> ms |
| f max 1 | <input checked="" type="checkbox"/> | 51.50 Hz | tf max 1 | <input type="text" value="90000"/> ms |
| f max 2 | <input checked="" type="checkbox"/> | 52.00 Hz | tf max 2 | <input type="text" value="500"/> ms |

Current and output limits

| | |
|---------|---|
| Iac max | <input type="text" value="2664.0"/> A |
| Pac max | <input type="text" value="1200000.0"/> W |
| S max | <input type="text" value="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.