EnaSolar GT Inverters - UK Grid Settings

The UK grid setting requirements are defined in 2 standards:

G83/2 - for single-phase DG less than 16A and/or 3.68kW - 1.5, 2, 3, 3.8 (3.68) kW GT Inverters

G59/2 - for single-phase DG greater than 16A - 4, 5 kW GT Inverters

Note that the “3.8” kW unit AC Output is limited to 3.68 kW and 16A, as required by G83/2

The following pictographs, show the grid settings that are loaded by default, ex Factory.

EnaSolar Inverters follow a 2-stage monitoring and disconnect methodology.

G83/2

Normal

Operating Range

AC Grid Voltage

200.1 V

184 V

262.2 V

273.7 V

2.6 sec

0.5 sec

1 sec

0.5 sec

Normal

Operating Range

AC Grid Frequency

52 Hz

51.5 Hz

47.5 Hz

47 Hz

20 sec

0.5 sec

90 sec

0.5 sec

Grid reconnection time: 20 seconds

G59/2

Normal

Operating Range

AC Grid Voltage

208.8 V

192 V

264 V

270 V

0.9 sec

2.4 sec

0.4 sec

0.4 sec

Normal

Operating Range

AC Grid Frequency

52 Hz

51.5 Hz

47.5 Hz

47 Hz

19.9 sec

0.4 sec

89 sec

0.4 sec

Grid reconnection time: 180 seconds

*Note: These Grid Settings can be modified to meet specific requirements, but can only be changed with the use of a specific User ID and Passkey – please contact your local Dealer or EnaSolar for more information.*

*In addition to the above, there are specific power and frequency control settings that can be adjusted (via the std. configuration software and USB connection to the Inverter).*

*Please refer to Technical Documents:*

* *5Av1 AC High Voltage Power turn-down*
* *5Bv1 Displacement Power Factor*
* *5Dv1 MPPT Settings*