



Declaration of Conformity

Declarant: **SolarMax Produktions GmbH**
Zur Schönhalde 10
D-89352 Ellzee

Product: **Solar (PV) Grid Inverter**

Models: **SolarMax 17SHT / 20SHT / 22SHT / 25SHT / 28SHT / 30SHT**

Hereby SolarMax Produktions GmbH declares that the inverters, mentioned above, do fulfil the requirements defined for Type A power generating units defined in:

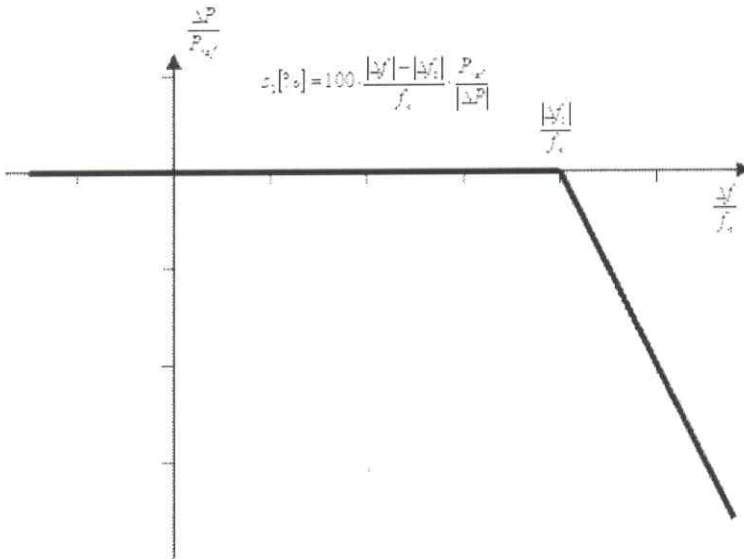
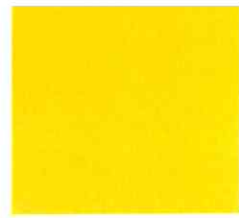
1. General application requirements resulting from the Commission Regulation (EU) 2016/631-NC RfG
2. Standard EN 50549-1:2019

Note: If choosing country setup PL, the following parameters are predefined in the country setup:

Voltage and frequency protection	Value	Max. disconnection time
Lower AC voltage limit [U<]	195.50 V	< 1.5 s
Upper AC voltage limit for the 10 minute average voltage value [U>]	253.0 V	< 3.0 s
Upper AC voltage limit [U>]	264.5 V	< 0.2 s
Lower AC frequency limit [f<]	47.5 Hz	< 0.5 s
Upper AC frequency limit [f>]	52 Hz	< 0.5 s
Loss of mains		
Active islanding detection	Active	2.0 s
Time before reconnection		
Time to reconnect after grid failure	60 s	-

The LFSM-O mode, in which the generated active power decreases in response to an increase in frequency above a predefined threshold value, is active with the following default settings:

Parameters of LFSM-O mode	
Frequency threshold of LFSM-O mode	50.2 Hz
Droop	5 %



P_{ref} is the reference active power to which ΔP is related and may be specified differently for synchronous power-generating modules and power park modules. ΔP is the change in active power output from the power-generating module. f_n is the nominal frequency (50 Hz) in the network and Δf is the frequency deviation in the network. At overfrequencies where Δf is above Δf_1 , the power-generating module has to provide a negative active power output change according to the droop S_2 .

This document will lose its validity, if the product is misused or modified without proper authorisation.

Ellzee, 2019/09/30

SolarMax Produktions GmbH



Martin Weißenfels, CEO