Self-Declaration

in accordance with the requirements of 2016/631 regarding the connection of generating units to the grid (RfG)

The company

KOSTAL Solar Electric GmbH
Hanferstraße 6
79108 Freiburg i. Br., Germany

hereby declares that the following products meet the requirements of 2016/631 regarding the connection of generating units to the grid (RfG):

PIKO 10-20, PIKO IQ,
PLENTICORE plus, PLENTICORE plus G2, PLENTICORE G3

Regulation (EU) 2016/631 of the European Commission establishes a network code for the requirements for the connection of generating units to the network („Code"). The Code introduces new technical requirements, including the provision of reactive power, the adaptation of battery systems to network operation and the required network system services. The new codes come into force on April 27, 2019 and are binding for all systems connected to the power grid.

The default parameter set **SE EN50438 2013**, which must be selected during initial startup, and the following settings fulfill these requirements:

Voltage and frequency protection	Value	Max. Switch-off time
Min. AC voltage	195.5 V	< 0.2 Sek.
Max. AC voltage	264.5 V	< 0.2 Sek.
Min. AC frequency	47.0 Hz	< 0.5 Sek.
Max AC frequency	51 Hz	< 0.5 Sek.
Switch off / power failure		
Active detection of work on the island	Active	2.0 sec.
Time before reconnecting		
After a grid failure	180 sec.	

The LFSM-O mode, where the active power generated decreases with increasing frequency above a certain threshold, is activated with the following default settings:

The LFSM-O	Value
Frequency threshold	50.5 Hz
Droop	8%

This declaration applies to all identical specimens of the product. This declaration becomes invalid if a change is made to the unit or the unit is improperly installed.

KOSTAL Solar Electric GmbH – Freiburg, 01.03.2024

Frank Henn
(Managing Director)

i.V. Frank Greizer
(Head of Department R&D)