

## Certificate

### Anti-Islanding Protection

The company

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

herby certifies, that its photovoltaic inverters for connection to the low voltage grid

#### **PIKO 1.5 MP, 2.0 MP, 2.5 MP, 3.0 MP, 3.6 MP, 4.2 MP**

fulfil in the setting "Greece" all requirements, which are postulated by the Greek Energy Supply Industry, concerning the Anti-Islanding Protection:

- The disconnection and connection of the inverter to the point of power injection is done with internal relays which are controlled by a software which will initiate:
  - an automatic (re-)connection to the public grid provided that voltage and frequency are within the range of  $0,8 \times V_{nom} - 1,15 \times V_{nom}$  and  $49.5 \text{ Hz} - 50.5 \text{ Hz}$ .
  - an immediate ( $< 0.5 \text{ s}$ ) disconnection if the voltage, the frequency or both are not within these limits.
  - the software with its adjustments can not be accessed by the end-user.
- The reconnection time after clearance of a grid failure is not shorter than 180 s.
- The injected DC current into the grid is  $< 0.5\%$  of nominal current.
- The total harmonic distortion of the output current (THDI) is lower than 5%.
- For active anti-islanding protection a measurement procedure according to the E DIN VDE V 0126-1-1:2012 is implemented inside the inverter.

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 – 2016-01-01**



i. V. Werner Palm  
(Geschäftsführer)



ppa. Dr. Armin von Preetzmann  
(Bereichsleiter Entwicklung)

This declaration certifies compliance with the harmonisation legislation provisions named, but does not contain any assurance of properties. Observe the safety instructions in the enclosed product documentation!