



Certificate of compliance

Applicant: KOSTAL Solar Electric GmbH
Hanferstraße 6
79108 Freiburg im Breisgau
Germany

Product: Grid-tied Photovoltaic (PV) inverter

Model: PIKO CI 50
PIKO CI 60

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with Engineering Recommendation G99/1 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter. This serves as a replacement for the disconnection device with isolating function that can access the distribution network provider at any time.

Applied rules and standards:

Engineering Recommendation G99 / Issue 1 Amendment 6, 09 March 2020

Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019

for

Type B Power Generating Modules

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

* A simulation study is not included.

Report number: 20TH0372_G99/1-6_0
Certificate number: U21-0019

Certification scheme: NSOP-0032-DEU-ZE-V01
Date of issue: 2021-01-15

Certification body

Thomas Lammel



Certification body of Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065
A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH

Type Approval and declaration of compliance with the requirements of Engineering Recommendation G99

Details of Power Generating Modules

Technology Type:	Photovoltaic inverter
Software version:	600101 or higher
Measurement period:	2020-03-02 - 2021-01-11

Unit / Type:	PIKO CI 50	PIKO CI 60
Input DC voltage range [V]..... :	200-1100	
Full-Load MPP DC voltage range [V] :	540-800	
Input DC current [A] :	max. 33 / 33 / 22 / 22	max. 33 / 33 / 33 / 33
Nominal output AC voltage [V]..... :	400, 3~ + N + PE; 50 Hz	
Max. output AC current [A] :	83,0	92,0
Nominal active output power [kW]... :	50,0	60,0
Max. apparent output power [kVA]... :	55,0	66,0

Type Approval and declaration of compliance with the requirements of Engineering Recommendation G99

Description of the structure of the power generation unit:

The inverters convert DC voltage, generated by photovoltaic modules, into AC voltage.

The units are three-phases inverter.

The input and output are protected by Varistors to Earth. The unit is providing EMC filtering at the output toward mains. The unit does not provide galvanic separation from input to output (transformer). The output is switched off redundant by the high-power switching bridge and two relays. This assures that the opening of the output circuit will also operate in case of one error.

The above stated Generating Units are tested according the requirements in the Engineering Recommendation G99/1. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements of the Engineering Recommendation G99/1.