

Certificate of compliance

Applicant:

KOSTAL Solar Electric GmbH Hanferstraße 6 79108 Freiburg im Breisgau Germany

Product:

Battery Inverter

Model:

PLENTICORE BI 5.5/26 G2 PLENTICORE BI 10/26 G2

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

EN 50549-1:2019

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

DIN VDE V 0124-100:2020 (5.5.2.1 Functional safety of network and system protection)

Grid integration of generator plants - Low-voltage - Test requirements for generator units to be connected to and operated in parallel with low voltage distribution networks

Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).

Type approval for generation units to use in Type A and Type B plants.

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.



Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH

BUREAU VERITAS Consumer Products Services Germany GmbH Oehleckerring 40, 22419 Hamburg, Germany Tel: +49 40 7404<u>1-0</u>_____ cps-hamburg@de.bureauveritas.com www.bureauveritas.de/cps



Appendix

Extract from test report according to EN 50549-1			No. 19TH0374-BI-G2-EN50549-1_	
Type Approval and declaration 2016/631 of 14 April 2016	on of compliance with th	e requirements of EN 5054	9-1 and Commissio	on Regulation (EU)
Manufacturer / applicant	KOSTAL Industrie Elektrik GmbH Lange Eck 11 58099 Hagen Germany			
Micro-generator Type	Battery inverter			
	PLENTICORE BI 5.5/26 G2	PLENTICORE BI 10/26 G2		
Input DC voltage range [V]	120 – 650	120 – 650		
Input DC current [A]	26	26		
Output AC voltage [V]	3N~, 400V, 50Hz	3N~, 400V, 50Hz		
Rated AC current [A]	7,94	14,43		
Max AC current [A]	8,82	16,04		
Active Power [W]	5500	10000		
Apparent power [VA]	5500	10000		
Firmware version	02.08			

Description of the structure of the power generation unit:

The power generation unit is equipped with a DC and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in each line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.