

Certificate of compliance

Applicant: KACO new energy GmbH
Wemer-von-Siemens-Allee 174172 Neckarsulm
Germany

Product: Photovoltaic (PV) inverter

Model: blueplanet 25.0 NX3 M3 WM OD IIGO,
blueplanet 30.0 NX3 M3 WM OD IIGO,
blueplanet 33.0 NX3 M3 WM OD IIGO

The device is designed to work as a generation unit of the type: A and B

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/A1:2023

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

EN 50549-10:2022

Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units

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 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.

Report number: PV2503WDG0012-1

Certificate number: U25-0516

Certification Program: NSOP-0032-DEU-ZE-V10

Date of issue: 2025-05-28

Certification body

Accreditation



Domenik Koll
Head of Energy Systems Germany



Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

Manufacturer	KACO new energy GmbH Wemer-von-Siemens-Allee 174172 Neckarsulm Germany			
Product type	Photovoltaic (PV) inverter			
Static converter model	blueplanet 25.0 NX3 M3 WM OD IIGO	blueplanet 30.0 NX3 M3 WM OD IIGO	blueplanet 33.0 NX3 M3 WM OD IIGO	--
Input DC (photovoltaic)				
MPP voltage range [V]	180-1000	180-1000	180-1000	--
Max. input voltage [V]	1100	1100	1100	--
Max. input current [A]	32/32/32	32/32/32	32/32/40	--
Output AC				
Rated AC voltage [V]	230/400, 50Hz, 3L/N/PE	230/400, 50Hz, 3L/N/PE	230/400, 50Hz, 3L/N/PE	--
Max. output current [A]	39,9	47,8	52,6	--
Nom. converter output (P_{NINV}) [W]	25000	30000	33000	--
Rated apparent power [VA]	25000	30000	33000	--
Interface protection system and interface switch (Network and system protection "NS-protection")				
Type of protection	Integrated NS-protection			
Assigned to generation unit type	blueplanet 25.0 NX3 M3 WM OD IIGO, blueplanet 30.0 NX3 M3 WM OD IIGO, blueplanet 33.0 NX3 M3 WM OD IIGO			
Integrated interface switch	Type of switching equipment 1: Relay (Model CHS01-V-112HA2) Type of switching equipment 2: Relay (Model CHS01-V-112HA2)			
	Note: The output is switched off by the inverter bridge and one relay in series in each line and neutral.			
Firmware version	Master DSP: V610-03041-13.001 Slave DSP: V610-60015-00 Safety: V610-11007-08			

Note

The settings of the interface protection are password protected adjustable.

In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.

The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. 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.