

Certificate

No. ESY 064946 0012 Rev. 06

Unit certificate

Holder of Certificate: **KACO new energy GmbH**

Werner-von-Siemens-Allee 1
74172 Neckarsulm
GERMANY

Product: **Converter
(PV inverter)**

Model(s): **blueplanet 25.0 NX3 M3 WM OD IIG0,
blueplanet 30.0 NX3 M3 WM OD IIG0,
blueplanet 33.0 NX3 M3 WM OD IIG0**

Parameters: See page 2-4

Applicable standards: VDE-AR-N 4110:2018
FGW TR3:2018
FGW TR4:2019
FGW TR8:2019

This Certificate confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290223098006

Date, 2025-12-17



(Lennart Luckert)

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Parameters:

General and Output values	
Manufacturer	KACO new energy GmbH
Type name	blueplanet 25.0 NX3 M3 WM OD IIG0
No. of phases	3 phases
Rated apparent power	25000 VA
Rated active power	25000 W
Rated AC-voltage	230/400 V _{AC}
Rated frequency	50 Hz
Contribution to short circuit current	43.919 A _{AC}
DC input	
Min. DC input voltage	180 V _{DC}
Max. DC input voltage	1100 V _{DC}
Max. DC input current	32/32/32 A _{DC}
Max. peak power	37500 W
Converter-Power section	
Manufacturer	KACO new energy GmbH
Type name	blueplanet 25.0 NX3 M3 WM OD IIG0
Rated apparent power	25000 VA
Generic type	MV/LV transformer is not included in the inverter
Pulse rated of inverter	24000 Hz
Generic type of power control	PWM
Software version	Main DSP: V610-03041-18.000 Slave DSP: V610-60015-00

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General and Output values	
Manufacturer	KACO new energy GmbH
Type name	blueplanet 30.0 NX3 M3 WM OD IIG0
No. of phases	3 phases
Rated apparent power	30000 VA
Rated active power	30000 W
Rated AC-voltage	230/400 V _{AC}
Rated frequency	50 Hz
Contribution to short circuit current	52.615 A _{AC}
DC input	
Min. DC input voltage	180 V _{DC}
Max. DC input voltage	1100 V _{DC}
Max. DC input current	32/32/32 A _{DC}
Max. peak power	45000 W
Converter-Power section	
Manufacturer	KACO new energy GmbH
Type name	blueplanet 30.0 NX3 M3 WM OD IIG0
Rated apparent power	30000 VA
Generic type	MV/LV transformer is not included in the inverter
Pulse rated of inverter	24000 Hz
Generic type of power control	PWM
Software version	Main DSP: V610-03041-18.000 Slave DSP: V610-60015-00

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General and Output values	
Manufacturer	KACO new energy GmbH
Type name	blueplanet 33.0 NX3 M3 WM OD IIG0
No. of phases	3 phases
Rated apparent power	33000 VA
Rated active power	33000 W
Rated AC-voltage	230/400 V _{AC}
Rated frequency	50 Hz
Contribution to short circuit current	57.898 A _{AC}
DC input	
Min. DC input voltage	180 V _{DC}
Max. DC input voltage	1100 V _{DC}
Max. DC input current	32/32/40 A _{DC}
Max. peak power	49500 W
Converter-Power section	
Manufacturer	KACO new energy GmbH
Type name	blueplanet 33.0 NX3 M3 WM OD IIG0
Rated apparent power	33000 VA
Generic type	MV/LV transformer is not included in the inverter
Pulse rated of inverter	24000 Hz
Generic type of power control	PWM
Software version	Main DSP: V610-03041-18.000 Slave DSP: V610-60015-00

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Manufacturer	KACO new energy GmbH		
Power generation unit type	PV inverter, type 2		
Technical data	Rated active power:	blueplanet 25.0 NX3 M3 WM OD IIG0	25000 W
		blueplanet 30.0 NX3 M3 WM OD IIG0	30000 W
		blueplanet 33.0 NX3 M3 WM OD IIG0	33000 W
	Rated voltage	blueplanet 25.0 NX3 M3 WM OD IIG0	3/N/PE~, 230/400 V _{AC}
		blueplanet 30.0 NX3 M3 WM OD IIG0	
		blueplanet 33.0 NX3 M3 WM OD IIG0	
Nominal frequency:	50 Hz		
Network connection rule	VDE-AR-N 4110:2018-11 "TCR Medium-voltage" Technical requirements for the connection and operation of customer installations to the medium voltage network		
Certification program	FGW Technical guideline No 8 (Revision 9)		
Standards/guidelines which are also applicable	FGW Technical guideline No 3 (Revision 25)		
	FGW Technical guideline No 4 (Revision 9)		
The power generating unit designated above meets the requirements of the VDE application guide listed above. The following restriction(s) and deviation(s) apply: The computer simulation model is validated with the built environment DigSilent Powerfactory 2021 SP1 (x64) and with the identity number: (1) For the blueplanet 25.0 NX3 M3 WM OD IIG0, MD5 code: A4B4732B5FC37B407942D082BAF0732C; (2) For blueplanet 30.0 NX3 M3 WM OD IIG0, MD5 code: 00E6B7F699CDE442E27163A10FDAFC77; (3) For the blueplanet 33.0 NX3 M3 WM OD IIG0, MD5 code: 3AE96A460193764505273A40C4B1B7C3; The integrated voltage/frequency protection is provided but without test terminal strips for function tests on-site for power generation system according to Clause 6.3.4.5 of VDE-AR-N 4110:2018. It should be considered during the planning of power generation system. The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001.			
The certificate includes the following: – technical data of the power generating unit, the auxiliary equipment used and the software version used(See Page 2 to 4); – schematic set-up of the power generation unit(See Page 6); – summarized information on the properties of the power generating unit(Technical report 64.290.22.30980.06 for the full evaluation according to FGW TR8 guideline).			
Certificate expiry date	2028-04-18		

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Schematic set-up of the power generation unit

