



**BUREAU
VERITAS**

Certificate

Manufacturer / applicant: KACO new energy GmbH
Werner-von-Siemens-Allee 1
74172 Neckarsulm
Germany

Product type: Grid-tied photovoltaic inverter

Model: KACO blueplanet 50.0 TL3 M1 WM OD IIGM
KACO blueplanet 50.0 TL3 M1 WM OD IIGB
KACO blueplanet 50.0 TL3 M1 WM OD IIGX
KACO blueplanet 50.0 TL3 M1 WM OD IIGS
KACO blueplanet 50.0 TL3 M1 WM OD FRGX
KACO blueplanet 29.0 TL3 M1 WM OD II4M
KACO blueplanet 29.0 TL3 M1 WM OD II4X
KACO blueplanet 29.0 TL3 M1 WM OD II4S
KACO blueplanet 50.0 TL3 M1 WM OD HUGM
KACO blueplanet 50.0 TL3 M1 WM OD HUGX
KACO blueplanet 60.0 TL3 M1 WM OD IIGB
KACO blueplanet 60.0 TL3 M1 WM OD IIGM
KACO blueplanet 60.0 TL3 M1 WM OD IIGX
KACO blueplanet 60.0 TL3 M1 WM OD FRGX
KACO blueplanet 60.0 TL3 M1 WM OD TWGB
KACO blueplanet 60.0 TL3 M1 WM OD KRGB

The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):

IEC 62109-1:2010, EN 62109-1:2010, DIN EN 62109-1:2011

Safety of power converters for use in photovoltaic power systems – Part 1: General requirements

IEC 62109-2:2011, EN 62109-2:2011, DIN EN 62109-2:2012

Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters

Report number: 15TH0250-IEC62109-1_18
15TH0250-IEC62109-2_13

Certification program: NSOP-0032-DEU-ZE-V01

Certificate number: U21-0464

Date of issue:

2021-05-21

Certification body

Thomas Lammel



Deutsche
Akkreditierungsstelle
D-ZE-12024-01-00

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Certification body of Bureau Veritas Consumer Products Services Germany GmbH

Accredited according to DIN EN ISO/IEC 17065

Grid-tied photovoltaic inverter ratings

Ratings:	KACO blueplanet 50.0 TL3 M1 WM OD IIGM; KACO blueplanet 50.0 TL3 M1 WM OD IIGB; KACO blueplanet 50.0 TL3 M1 WM OD IIGX; KACO blueplanet 50.0 TL3 M1 WM OD IIGS; KACO blueplanet 50.0 TL3 M1 WM OD FRGX
MPP DC voltage range [V]:	580 – 900
Input DC voltage range [V]:	580 – 1100
Input DC current [A]:	90 Inom / 190 Isc max
Output AC voltage [V]:	nom. 230 / 50 Hz 220 / 380; 230 / 400; 240 / 415 (3/N/PE – 3/PEN); 42 – 68 Hz
Output AC current [A]:	3 x 76,5
Output power [VA]:	50000 nom. / 52000 max.

Ratings:	KACO blueplanet 50.0 TL3 M1 WM OD HUGM; KACO blueplanet 50.0 TL3 M1 WM OD HUGX
MPP DC voltage range [V]:	580 – 900
Input DC voltage range [V]:	580 – 1100
Input DC current [A]:	90 Inom / 190 Isc max
Output AC voltage [V]:	220 / 380; 230 / 400; 240 / 415 (3/N/PE – 3/PEN); 42 – 68 Hz
Output AC current [A]:	3 x 76,5
Output power [VA]:	49900 nom. / 52000 max.

Ratings:	KACO blueplanet 29.0 TL3 M1 WM OD I4M; KACO blueplanet 29.0 TL3 M1 WM OD I4X; KACO blueplanet 29.0 TL3 M1 WM OD I4S
MPP DC voltage range [V]:	360 – 900
Input DC voltage range [V]:	360 – 1100
Input DC current [A]:	85 Inom / 190 Isc max
Output AC voltage [V]:	nom. 230 / 50 Hz 220/127 (3/N/PE – 3/PEN); 42 – 68 Hz
Output AC current [A]:	3 x 76,5
Output power [VA]:	29000 nom. / 30100 max.

Ratings:	KACO blueplanet 60.0 TL3 M1 WM OD IIGB; KACO blueplanet 60.0 TL3 M1 WM OD IIGM; KACO blueplanet 60.0 TL3 M1 WM OD IIGX; KACO blueplanet 60.0 TL3 M1 WM OD FRGX; KACO blueplanet 60.0 TL3 M1 WM OD TWGB; KACO blueplanet 60.0 TL3 M1 WM OD KRGB
MPP DC voltage range [V]:	580 – 900
Input DC voltage range [V]:	580 – 1100
Input DC current [A]:	107 Inom / 190 Isc max
Output AC voltage [V]:	nom. 230 / 50 Hz 220 / 380; 230 / 400; 240 / 415 (3/N/PE – 3/PEN); 42 – 68 Hz
Output AC current [A]:	3 x 90
Output power [VA]:	60000