

Product Certificate Number	21749-1-CER
Applicant	KACO new energy GmbH Werner-von-Siemens-Allee 1 74172 Neckarsulm Germany
Series	KACO blueplanet gridsave
Models/	See page 2
Type of generating unit	Grid-tied bidirectional converter
Technical Data	See pages 3 to 5
Software version	V03.52
Network connection code	EN 50549-1. Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network – Generating plants up to and including Type B. February 2019. EN 50549-2. Requirements for generating plants to be connected in parallel with distribution networks - Part 2: Connection to a MV distribution network – Generating plants up to and including Type B. February 2019
Having assessed the report number: 21749-2-TR, 21749-3-TR, 21601-1-TR, 21748-2-TR, 469/18/183096LP, 469/18/183095LP performed by CERE (EA Accredited Laboratory Nº 1376/LE2560) and CREIVen (EA Accredited Laboratory Nº 0259) based on the requirements of the EN ISO/IEC 17025: 2017. The above-mentioned generating unit complies with the requirements of the: EN 50549-1. Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network – Generating plants up to and including Type B. February 2019. EN 50549-2. Requirements for generating plants to be connected in parallel with distribution networks - Part 2: Connection to a MV distribution network – Generating plants up to and including Type B. February 2019. This certification is according to the CERE internal process PET-CERE-30 Rev 5, that defines the certification scheme, based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities were based on: • Testing of production samples selected by CERE. • Audit of quality system according to ISO 9001 with certificate number: 2020-0109492-00 issued by a certification body accredited according EN ISO/IEC 17021. • Inspection of the manufacturing process. Madrid, March 2, 2023. This certificate is valid until March 2, 2028  Miguel Martínez Lavin Certification Director	

Models

blueplanet gs 92.0 TL3-S B1 WM OD IIGM
blueplanet gs 92.0 TL3-S B1 WM OD IIGL
blueplanet gs 92.0 TL3-S B1 WM OD IIGX
blueplanet gs 110 TL3-S B1 WM OD IIKM
blueplanet gs 110 TL3-S B1 WM OD IIKL
blueplanet gs 110 TL3-S B1 WM OD IIKX
blueplanet gs 137 TL3-S B1 WM OD IIPM
blueplanet gs 137 TL3-S B1 WM OD IIPL
blueplanet gs 137 TL3-S B1 WM OD IIPX



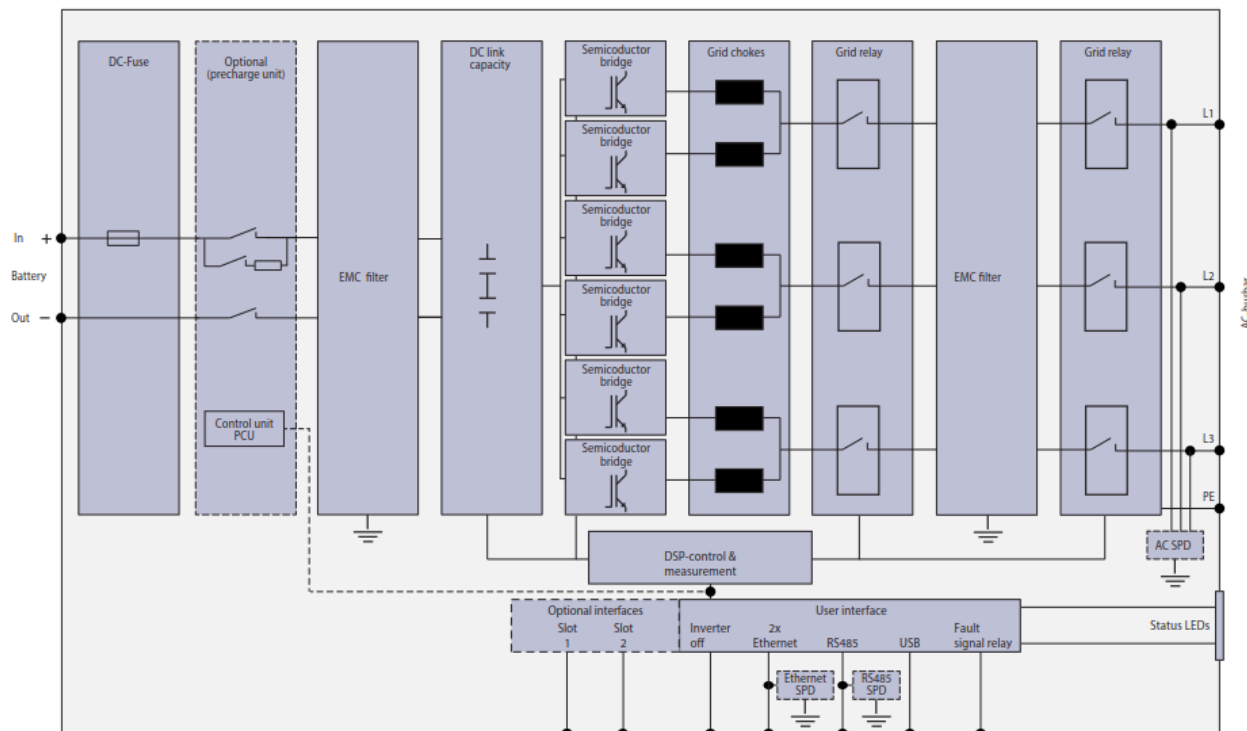
Technical data

KACO blueplanet	
	blueplanet gs 92.0 TL3-S B1 WM OD IIGM blueplanet gs 92.0 TL3-S B1 WM OD IIGL blueplanet gs 92.0 TL3-S B1 WM OD IIGX
DC INPUT DATA	
Voltage range	668-1315 V
Max. input current	145 A
Max. short circuit current $I_{sc \max}$	300 A
Number of DC inputs	1
AC OUTPUT DATA	
Rated output	92 000 VA
Max. power	92 000 VA
Line voltage	400 V (3P+PE)
Voltage range: continuous operation	300 V - 580 V
Rated frequency (range)	50 Hz / 60 Hz (45 Hz – 65 Hz)
Rated current	3 x 132,3 A
Max. current	3 x 132,3 A
Reactive power / cos phi	0 – 100 % S_{nom} / 0.3 ind. – 1 ind/cap
Max. total harmonic distortion (THD)	< 3 %
Number of grid phases	3
GENERAL DATA	
Operation mode	Grid dependent (charge/discharge)
Standby consumption	<8/ <14 with PCU
Circuitry topology	transformerless
MECHANICAL DATA	
Display	LEDs
Control units	Buttons / webserver
Humidity	0 – 100 %

KACO blueplanet	
	blueplanet gs 110 TL3-S B1 WM OD IIKM blueplanet gs 110 TL3-S B1 WM OD IIKL blueplanet gs 110 TL3-S B1 WM OD IIKX
DC INPUT DATA	
Voltage range	801-1315 V
Max. input current	145 A
Max. short circuit current $I_{sc \max}$	300 A
Number of DC inputs	1
AC OUTPUT DATA	
Rated output	110 000 VA
Max. power	110 000 VA
Line voltage	480 V (3P+PE)
Voltage range: continuous operation	300 V - 580 V
Rated frequency (range)	50 Hz / 60 Hz (45 Hz – 65 Hz)
Rated current	3 x 132,3 A
Max. current	3 x 132,3 A
Reactive power / cos phi	0 – 100 % S_{nom} / 0.3-1 ind/cap
Max. total harmonic distortion (THD)	< 3 %
Number of grid phases	3
GENERAL DATA	
Operation mode	Grid dependent (charge/discharge)
Standby consumption	<8/ <14 with PCU
Circuitry topology	transformerless
MECHANICAL DATA	
Display	LEDs
Control units	Buttons / webserver
Humidity	0 – 100 %

KACO blueplanet	
	blueplanet gs 137 TL3-S B1 WM OD IIPM blueplanet gs 137 TL3-S B1 WM OD IIPL blueplanet gs 137 TL3-S B1 WM OD IIPX
DC INPUT DATA	
Voltage range	1002-1315 V
Max. input current	145 A
Max. short circuit current $I_{sc \max}$	300 A
Number of DC inputs	1
AC OUTPUT DATA	
Rated output	137 000 VA
Max. power	137 000 VA
Line voltage	600 V (3P+PE)
Voltage range: continuous operation	480 V - 760 V
Rated frequency (range)	50 Hz / 60 Hz (45 Hz – 65 Hz)
Rated current	3 x 132,3 A
Max. current	3 x 132,3 A
Reactive power / cos phi	0 – 100 % S_{nom} / 0.3 -1 ind/cap
Max. total harmonic distortion (THD)	< 3 %
Number of grid phases	3
GENERAL DATA	
Operation mode	Grid dependent (charge/discharge)
Standby consumption	<8/ <14 with PCU
Circuitry topology	transformerless
MECHANICAL DATA	
Display	LEDs
Control units	Buttons / webserver
Humidity	0 – 100 %

Electrical Diagram of KACO blueplanet gridsave Series



The sample selected to test was representative of the production.
The sample was selected in:

KACO new energy GmbH
Werner-von-Siemens-Allee, 1.
74172 Neckarsulm
Germany

Sample Report Number:

11515-1-TM
21749-TM
21748-TM
21601-TM

The inspection of manufacturing process was performed in:
On December 13, 2022

KACO new energy GmbH
Werner-von-Siemens-Allee, 1.
74172 Neckarsulm
Germany

Inspection Report Number:

60029-22-1-IF

RECORD OF CHANGES

Revision	Reason of the modification	Modification	Date
0	Initial version	--	02/03/2023