



<b>Product Certificate Number</b>	<b>11515-5-CER</b>
<b>Applicant</b>	KACO new energy GmbH Carl-Zeiss-Str. 1 74172. Neckarsulm.Germany
<b>Series</b>	KACO blueplanet
<b>Models/</b>	KACO blueplanet 87.0 TL3 M1 WM OD IIF0 KACO blueplanet 92.0 TL3 M1 WM OD IIG0 KACO blueplanet 125 TL3 M1 WM OD IIP0 KACO blueplanet 137 TL3 M1 WM OD IIP0 KACO blueplanet 150 TL3 M1 WM OD IIQ0
<b>Type of generating unit</b>	Photovoltaic Inverter
<b>Technical Data</b>	See page 2 and 3
<b>Network connection rule</b>	<b>VDE-V- 0126-1-1: 2013.</b> Automatic disconnection device between a generator and the public low voltage grid.

Having assessed the test report number: 469/18/183097LP, 11515-2-TR, 11515-9-TR, 103550889CRT-002d, 103550889CRT-002f and EMV 18 10 3915 performed by CREI Ven S.c.a.r.l (EA Accredited Laboratory N° 0259), CERE (N° 1239/LE2396), INTERTEK (N°1249.01) and TUV Hessen (N° D-PL-14137-02-00) based on the requirements of the EN ISO/IEC 17025:2005.

The above-mentioned generating unit complies with the requirements of the: **VDE-V- 0126-1-1: 2013.** Automatic disconnection device between a generator and the public low voltage grid.

This certification is according the CERE internal process PET-CERE-09 Rev 15 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 ISO 9001 with certificate number: 2018-0076483-00 issued by a certification body accredited according EN ISO/IEC 17021.
- Inspection of the manufacturing process.

Madrid at February 14, 2019. This certificate is valid until February 14, 2022

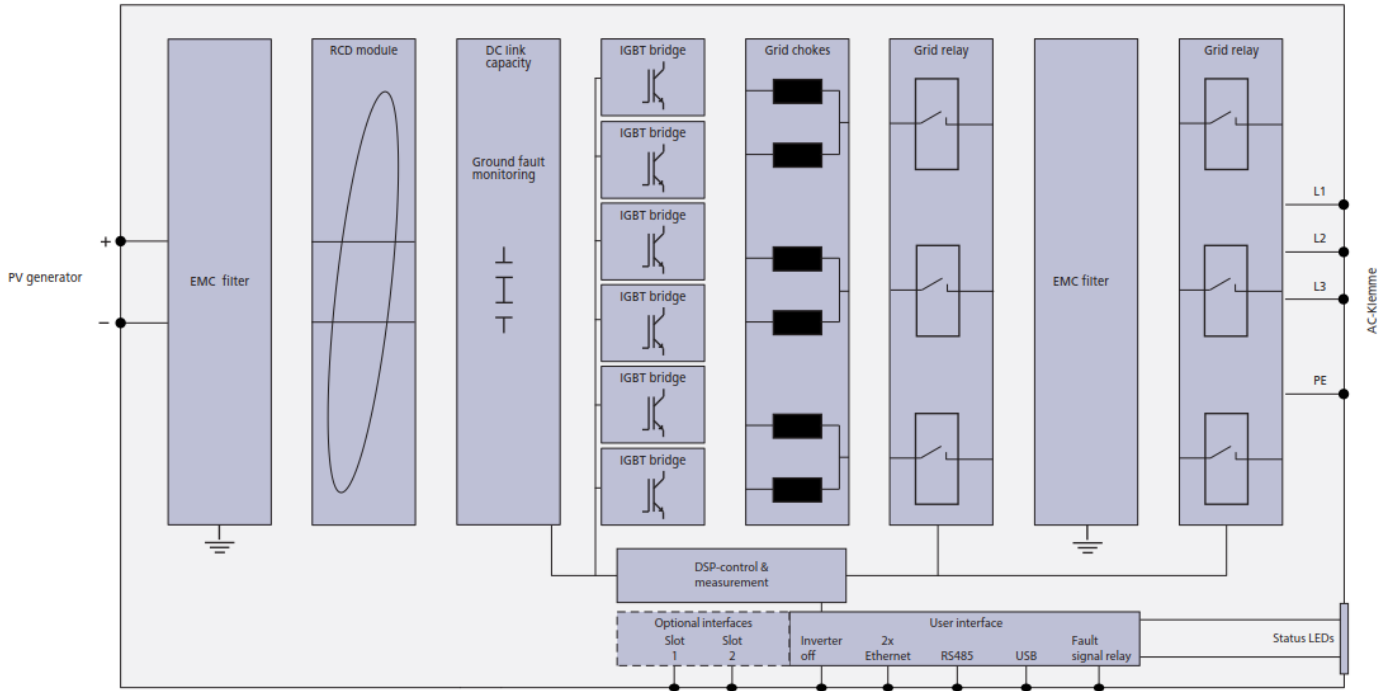
Miguel Martínez Lavin  
Certification Manager

## Technical data

KACO blueplanet		
	87.0 TL3	92.0 TL3
<b>DC INPUT DATA</b>		
Max. recommended PV generator power	130500 W	138000 W
MPP range	563 – 1300 V	591 – 1300 V
Operating range	563 – 1450 V	591 – 1450 V
Rated DC voltage / start voltage	600 V/ 645 V	620 V/ 675 V
Max. no load voltage	1500 V	
Max. input current	160 A	
Max. short circuit current $I_{sc\ max}$	300 A	
<b>AC OUTPUT DATA</b>		
Rated output	87000 VA	92000 VA
Max. power	87000 VA	92000 VA
Line voltage	380 V (3P+PE)	400 V (3P+PE)
Voltage range (ph-ph)	300 – 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 current / cos phi	0 – 100 % Som / 0.3 ind. – 0.30 cap	
Max. total harmonic distortion (THD)	≤ 3 %	
<b>GENERAL DATA</b>		
Circuitry topology	transformerless	
<b>MECHANICAL DATA</b>		
Control units	webserver, supports mobile devices	
Interfaces	Ethernet (Modbus TCP, Sunspec) RS485 (Modbus RTU, Sunspec, KACO-protocol) USB, optional: 4-DI, WIFI	
Ambient temperature	-25 °C – +60 °C	
Humidity	0 – 100 %	

<b>KACO blueplanet</b>			
	<b>125 TL3</b>	<b>137 TL3</b>	<b>150 TL3</b>
<b>DC INPUT DATA</b>			
Max. recommended PV generator power	187500 W	205500 W	225000 W
MPP range	875-1300 V		960-1300 V
Operating range	875-1450 V		960-1450 V
Rated DC voltage / start voltage	900 V / 1000 V		1000 V / 1100 V
Max. no load voltage	1500 V		
Max. input current	160 A		
Max. short circuit current $I_{sc\ max}$	300 A		
<b>AC OUTPUT DATA</b>			
Rated output	125000 VA	137000 VA	150000 VA
Max. power	137500 VA	137000 V	150000 VA
Line voltage	600 V (3P+PE)		660 V (3P+PE)
Voltage range (ph-ph)	480 – 760 V		
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)		
Rated current	3 x 120.3 A	3 x 132.3 A	3 x 131.2 A
Max. current	3 x 132.3 A	3 x 132.3 A	3 x 132.3 A
Reactive current / cos phi	0 – 100 % Som / 0.3 ind. – 0.30 cap		
Max. total harmonic distortion (THD)	≤ 3 %		
<b>GENERAL DATA</b>			
Circuitry topology	Transformerless		
<b>MECHANICAL DATA</b>			
Control units	webserver, supports mobile devices		
Interfaces	Ethernet (Modbus TCP, Sunspec) RS485 (Modbus RTU, Sunspec, KACO-protocol) USB, optional: 4-DI, WIFI		
Ambient temperature	-25 °C – +60 °C		
Humidity	0 – 100 %		

Electrical Diagram of KACO blueplanet Series



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

Sample Report Number:

The inspection of manufacturing process was performed in:  
On 11<sup>th</sup> of December of 2018

Inspection Report Number:

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

11515-1-TM  
11515-2-TM  
11515-3-TM

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11515-1-IF