



Product Certificate Number	11515-23-CER
Applicant	KACO new energy GmbH Carl-Zeiss-Str. 1 74172. Neckarsulm.Germany
Series	KACO blueplanet
Models/	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
Type of generating unit	Photovoltaic Inverter
Technical Data	See page 2 and 3
Network connection rule	Technische und organisatorische Regeln für Betreiber und Benutzer von Netzen. Teil D: Besondere technische Regeln. Hauptabschnitt D4: Parallelbetrieb von Erzeugungsanlagen mit Verteilernetzen.

Having assessed the test report number: 11515-13-TR performed by CERE based on the requirements of the EN ISO/IEC 17025:2005.

The above-mentioned generating unit complies with the requirements of the: **Technische und organisatorische Regeln für Betreiber und Benutzer von Netzen.** Teil D: Besondere technische Regeln. **Hauptabschnitt D4:** Parallelbetrieb von Erzeugungsanlagen mit Verteilernetzen

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 March 28, 2019. This certificate is valid until March 28, 2022

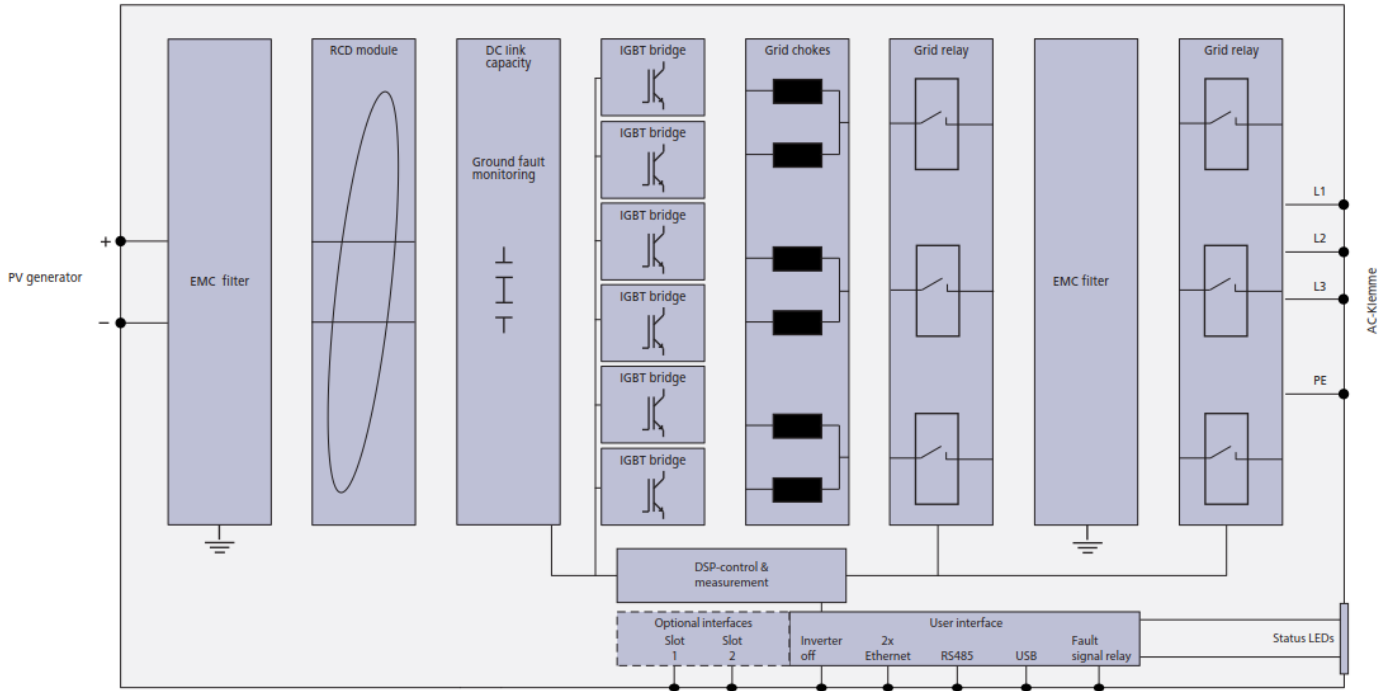
Miguel Martínez Lavin
Certification Manager

Technical data

KACO blueplanet		
	87.0 TL3	92.0 TL3
DC INPUT DATA		
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	
AC OUTPUT DATA		
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 %	
GENERAL DATA		
Circuitry topology	transformerless	
MECHANICAL DATA		
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 %	

KACO blueplanet			
	125 TL3	137 TL3	150 TL3
DC INPUT DATA			
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		
AC OUTPUT DATA			
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 %		
GENERAL DATA			
Circuitry topology	Transformerless		
MECHANICAL DATA			
Control units	webservice, 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:

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

Sample Report Number:

11515-1-TM

The inspection of manufacturing process was performed in:
On 11th of December of 2018

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

Inspection Report Number:

11515-1-IF