



**BUREAU  
VERITAS**

## Certificate of compliance

**Applicant:** KACO new energy GmbH  
Carl-Zeiss-Str. 1  
74172 Neckarsulm  
Germany

**Product:** Photovoltaic inverter

**Model:** Powador 12.0TL3-INT,  
Powador 14.0TL3-INT,  
Powador 18.0TL3-INT,  
Powador 20.0TL3 INT,  
Blueplanet 20.0 TL3 M2 WM OD IIG0

### Use in accordance with regulations:

The inverters are tested according to electrical safety, grid protection, specified environmental influences and efficiency. For detailed information, please watch the corresponding test reports.

### Applied rules and standards:

IEC 61727:2004	Characteristics of the utility interface
IEC 62116:2008	Islanding prevention measures for utility-interconnected photovoltaic inverters.
IEC 62109-1:2010	Safety of power converters for use in photovoltaic power systems
IEC 62109-2:2011	Safety of power converters for use in photovoltaic power systems
IEC 60068-2-1:2007	Environmental testing – Part 2-1: Tests – Test A: Cold
IEC 60068-2-2:2007	Environmental testing – Part 2-2: Tests – Test B: Dry heat
IEC 60068-2-14:2009	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
IEC 60068-2-30:2005	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12h + 12 h cycle)
IEC 60068-2-75:1997	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (IEC 62262:2002 – IK code)
IEC 61683:1999	Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
IEC 60529	Degree of protection provided by enclosure (IP Code: 65) Protection against IP6X according to EN 60529, sub-cl. 13.4 and 13.6 Protection against IPX5 according to EN 60529, sub-cl. 14.2.5

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

**Report number:** 10TH0306-EN50438\_0; 10TH0306-IEC60068\_1  
10TH0306-IEC61683\_6; 10TH0306-IEC61727\_0  
10TH0306-IEC60529\_0

**Certificate number:** U17-0145

**Date of issue:** 2017-04-05

### Certification body



Holger Schaffer

Certification body of Bureau Veritas Consumer Products Services Germany GmbH  
Accredited according to DIN EN ISO/IEC 17065