



**BUREAU  
VERITAS**

# Certificate of compliance

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

**Product:** Grid-tied photovoltaic inverter

**Model:** blueplanet 20.0 TL3 M2 WM OD IIG0

## Use in accordance with regulations:

Automatic disconnection device with three -phase mains surveillance in accordance with IEC 61727:2004 and IEC62116:2008 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverters.

## Applied rules and standards:

### IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

### IEC 62116:2008/2014

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

### IEEE 1547:2003, IEEE 1547.1:2005 (harmonics, d.c.-injection, voltage and frequency disconnection, reconnection)

IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems

*The following deviations for Thailand were applied:*

*Electricity Grid System Connection Requirements B.E. 2551 of Provincial Electricity Authority (PEA 2016) with attachement for Proclamation No. 6.2 for plants till and above 500kW:*

<i>under voltage limit (level 1):</i>	<i>198,0V</i>	<i>lower frequency limit:</i>	<i>46,9Hz</i>
<i>under voltage limit (level 2):</i>	<i>110,0V</i>	<i>upper frequency limit:</i>	<i>52,1Hz</i>
<i>over voltage limit (level 1):</i>	<i>242,0V</i>	<i>loss of main detection limit:</i>	<i>2s</i>
<i>overvoltage limit (level 2):</i>	<i>264,0V</i>		

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.

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## Certification body



Holger Schäffer

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

