



**BUREAU
VERITAS**

Certificate of compliance

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

Product: Grid-tied photovoltaic inverter

Model: blueplanet 15.0 TL3 M2 WM OD IIG0
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>199,0V</i>	<i>lower frequency limit:</i>	<i>46,9Hz</i>
<i>under voltage limit (level 2):</i>	<i>114,0V</i>	<i>upper frequency limit:</i>	<i>52,1Hz</i>
<i>over voltage limit (level 1):</i>	<i>241,0V</i>	<i>loss of main detection limit:</i>	<i>1s</i>
<i>overvoltage limit (level 2):</i>	<i>300,0V</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 Schaffer



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