



**BUREAU
VERITAS**

Certificate of compliance

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

Product: Grid-tied photovoltaic (PV) inverter

Model: Powador 60.0 TL3 – M – INT
Powador 60.0 TL3 – XL – INT
Powador 60.0 TL3 – XL – INT – SPD 1+2
Powador 60.0 TL3 – XL – F – INT
Powador 60.0 TL3 – XL – F – SPD 1+2

Use in accordance with regulations:

The inverters are tested according to the IEC 61683:1999, EN 61683:2000, DIN EN 61683:2000 procedure for measuring efficiency.

Applied rules and standards:

IEC 61683:1999, EN 61683:2000, DIN EN 61683:2000

Photovoltaic systems – Power conditioners – Procedure for measuring efficiency

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: 12TH0351-IEC61683
Certificate number: U16-0317
Date of issue: 2016-06-10

Certification body

Dieter Zitzmann



DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-12024-01-00

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

Measuring of efficiency

Extract from test report according the IEC 61683

Nr. 12TH0351

Efficiency measurement conditions test results

Powador 60.0 TL3

Input voltage [Vdc]		Power in [W] (nom. 49900 W)				
		10%	25%	50%	75%	100%
		4990 W	12475 W	24950 W	37425 W	49900 W
		η in [%]				
V _{min}	480 V	96,31%	97,07%	97,05%	96,77%	96,35%
V _{nominal}	720 V	96,90%	97,67%	97,71%	97,54%	97,28%
V _{max (90% MPPT)}	765 V	96,65%	97,54%	97,62%	97,45%	97,19%

