

Test Certificate No.: 9612333187

In accordance with Clause 12 of the Standards Law – 1953

Details of order:

Name of customer	: Bureau Veritas Consumer Product Services GmbH
Address	: Businesspark A96, 86842 Türkheim, Germany
Date of order	: 13/12/2016

Description of sample:

Solar Inverter Models	: Powador 30.0 TL3	Powador 33.0 TL3
	: Powador 36.0 TL3	Powador 39.0 TL3
	: Powador 40.0 TL3	Powador 48.0 TL3
	<u>See page 2 for details</u>	
Manufacturer	: Kaco New Energy GmbH	
Country of origin	: Germany	
(see additional product information on pages 2-33)		

Sampling details:

No sample required.

Nature of test:

Review of test reports Ref. No.: 10TH0307-IEC62109-1_7, dated 12/12/2016, 10TH0307-IEC62109-2_3, dated 12/12/2016, and 10TH0307-AS/NZS4777_4, dated 12/10/2016, issued by Bureau Veritas Consumer Products Services, Germany GmbH for the above-specified solar inverter models according to the following standards:

IEC 62109-1: 2010 – Safety of power converters for use in photovoltaic power system – Part 1: General requirements

IEC 62109-2: 2011 – Safety of power converters for use in photovoltaic power system – Part 2: Particular requirements for inverters

AS 4777.2: 2005 - Grid connection of energy systems via inverters: Inverter requirements;

AS 4777.3: 2005 - Grid connection of energy systems via inverters: Grid protection requirements, with Deviations for Israel according to SI 4777.2:2008, SI 4777.3: 2008 and the Guidelines for Importers, Installers and Owners of Electricity Generating Systems Using Photo-Voltaic Technology, regarding Adjustment of Photo-Voltaic Inverters: 2013

This document contains 33 pages and may be used only in full.

The test results in this report refer only to the item tested.

This document alone is not sufficient for the release of goods from customs.
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Test Conclusions:

Based on the information provided in the above mentioned test reports, the above-specified solar inverter models comply with the Israeli requirements for grid-tied photovoltaic inverters.
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Product Safety Engineer
Electrical Safety Branch
Electronics and Telematics Laboratory
The Standards Institution of Israel
Date: 19/12/2016

Vladimir Chernikh
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Date: 19/12/2016



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ADDITIONAL PRODUCT INFORMATION

List of Models

- | | |
|--|--|
| Powador 30.0 TL3 - M – INT | Powador 30.0 TL3 - XL – INT |
| Powador 30.0 TL3 - XL - INT - SPD 1+2 | Powador 30.0 TL3 - XL - F – INT |
| Powador 30.0 TL3 - XL - F - SPD 1+2 | |
| Powador 33.0 TL3 - M – INT | Powador 33.0 TL3 - XL – INT |
| Powador 33.0 TL3 - XL - INT - SPD 1+2 | Powador 33.0 TL3 - XL - F – INT |
| Powador 33.0 TL3 - XL - F - SPD 1+2 | |
| Powador 36.0 TL3 - M - INT | Powador 36.0 TL3 - M1 |
| Powador 36.0 TL3 - XL - INT | Powador 36.0 TL3 - XL - INT - SPD 1+2 |
| Powador 36.0 TL3 - XL - F – INT | Powador 36.0 TL3 - XL - F - SPD 1+2 |
| Powador 39.0 TL3 - M - INT | Powador 39.0 TL3 - M1 |
| Powador 39.0 TL3 - XL - INT | Powador 39.0 TL3 - XL - INT - SPD 1+2 |
| Powador 39.0 TL3 - XL - F – INT | Powador 39.0 TL3 - XL - F - SPD 1+2 |
| Powador 40.0 TL3 - M - INT | Powador 40.0 TL3 - XL - INT |
| Powador 40.0 TL3 - XL - INT - SPD 1+2 | Powador 40.0 TL3 - XL - F - INT |
| Powador 40.0 TL3 - XL - F - SPD 1+2 | |
| Powador 48.0 TL3 - M - INT - Park | Powador 48.0 TL3 - XL - INT - Park |
| Powador 48.0 TL3 - XL - INT - SPD 1+2 | Powador 48.0 TL3 - XL - F - INT - Park |
| Powador 48.0 TL3 - XL - F - SPD 1+2 – Park | |

Electrical Ratings

Ratings..... :	30.0	33.0	36.0	39.0	40.0	48.0
MPP DC voltage range [V].....:	350 – 800					410 - 800
Input DC voltage range [V].....:	350 – 1000					
Input DC current [A]	3 x 34,0					
Output AC voltage [V]	400 V 3 / N / PE @ 50 / 60 Hz					480 V 3 / N / PE
Output AC current [A]	36,2	40,6	43,3	48,3	52,2	48,1
Output power [VA].....:	25000	28000	30000	33300	36000	40000