



**BUREAU  
VERITAS**

# Certificate of compliance

**Applicant:** REFU Elektronik GmbH  
Marktstraße 185  
72793 Pfullingen  
Germany

**Product:** Grid-tied photovoltaic inverter

**Model:** REFUsol 08K (865P008)  
REFUsol 10K (865P010)  
REFUsol 13K (865P013)  
REFUsol 17K (865P017)  
REFUsol 20K (865P020)  
REFUsol 23K (865P023)

## Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with AS/NZS 4777.2:2015 and AS/NZS 4777.2:2015 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 inverter.

## Applied rules and standards:

<b>AS/NZS 4777.2:2015</b>	Grid connection of energy systems via inverters, Part 2: Inverter requirements
<b>IEC 62109-1:2010</b>	Safety of power converters for use in photovoltaic power systems – Part 1: General requirements
<b>IEC 62109-2:2011</b>	Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters

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:** 16TH0127-AS/NZS4777.2:2015\_0  
16TH0127-IEC62109-1\_1  
16TH0127-IEC62109-2\_1

**Certificate number:** U18-0005

**Date of issue:** 2018-01-15      **Valid until:** 2022-01-14

**Certification body**



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



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## Certificate of Suitability

**Certificate No.:** SAA173124

**Certificate Holder:** REFUsol GmbH  
Uracher Straße 91,  
72555 Metzingen  
Germany

**Class Description:** Non-Declared  
**Product Description:** Grid-tied Photovoltaic Inverter  
**Brand Name:** REFU Elektronik GmbH  
**Model No.:** REFUsol 20K (865P020)  
**Markings:** Input: MPP Range: 490-850Vdc, Max 1000Vdc, 41.8A  
Output: 400V~ 3/N/PE, 50Hz, Max 20kVA, 30.4A  
Class I, IP65, -25°C to +55°C

**Standard:** IEC 62109-1 Ed 1.0  
IEC 62109-2 Ed 1.0  
AS/NZS 4777.2:2015

**Conditions:** Nil

**Certification Mark:** SAA173124 or RCM

**Date First Registered:** 19 December 2017

**Date of Expiry:** 19 December 2022

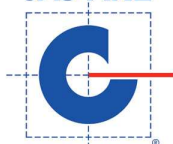
For and on Behalf of  
SAA Approvals Pty Ltd

SAA Approvals Pty Ltd as accredited by JAS-ANZ under ISO/IEC 17065 certifies in accordance with the SAA Approvals Electrical Product Safety Certification Scheme that the product nominated in this certificate complies with standard/s listed.

When using the RCM the requirements of all relevant parts of AS/NZS 4417 applicable to the article must be fulfilled.

For SAA Contact Details and to verify this Certificate go to:  
[www.saaapprovals.com.au](http://www.saaapprovals.com.au)

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# Certificate of Suitability

## \*Addendum\*

**Certificate No.:** SAA173124

**Date of Issue:** 19 December 2017

**Class Description:** Non-Declared

**Product Description:** Grid-tied Photovoltaic Inverter

Additional Models	Description
REFUsol 23K (865P023)	Input: MPP Range: 575-850Vdc, Max 1000Vdc, 41A Output: 460V~ 3/N/PE, 50Hz, Max 23kVA, 30.4A
REFUsol 17K (865P017)	Input: MPP Range: 460-850Vdc, Max 1000Vdc, 38.3A Output: 400V~ 3/N/PE, 50Hz, Max 17kVA, 30.4A
REFUsol 13K (865P013)	Input: MPP Range: 480-850Vdc, Max 1000Vdc, 31A Output: 400V~ 3/N/PE, 50Hz, Max 13kVA, 21A
REFUsol 10K (865P010)	Input: MPP Range: 410-850Vdc, Max 1000Vdc, 25A Output: 400V~ 3/N/PE, 50Hz, Max 10kVA, 16A
REFUsol 08K (865P008)	Input: MPP Range: 370-850Vdc, Max 1000Vdc, 23A Output: 400V~ 3/N/PE, 50Hz, Max 8250VA, 13A

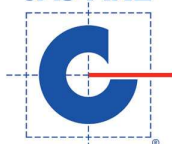
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