


Test Verification of Conformity

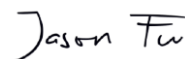
Verification Number: 230524089GZU-VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	REFU Elektronik GmbH Marktstrasse 185,72793 Pfullingen, Germany
Product Description:	Solar Grid-tied Inverter
Ratings & Principle Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	REFU _{sol} 15K-2T (853P015.200), REFU _{sol} 17K-2T (853P017.200), REFU _{sol} 20K-2T (853P020.200), REFU _{sol} 22K-2T (853P022.200), REFU _{sol} 24K-2T (853P024.200)
Brand Name:	
Relevant Standards/Directives:	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch. Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	12 June 2023 to 14 June 2023
Test Report Number(s):	230524089GZU-001, 230524089GZU-002

Additional information in Appendix.



Signature

Name: Jason Fu

Position: Supervisor

Date: 14 June 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230524089GZU-VOC001.

Model	REFUso1 15K-2T (853P015.200)	REFUso1 17K-2T (853P017.200)	REFUso1 22K-2T (853P022.200)
Max. DC input voltage	1100V		
Max. Input current	26A/26A		
Max. PV Isc	36A/36A		
Nominal Grid voltage	3/N/PE, 230V/400V		
Rated Output Current	3*21.7A	3*24.6A	3*31.9A
Nominal Grid frequency	50/60Hz		
Rated output Power	15000W	17000W	22000W
Rated Apparent Power	15000VA	17000VA	22000VA
Max. Output power	16500VA	18700VA	24200VA
Power Factor	1(adjustable +/-0.8)		
Ingress Protection	IP65		
Operating Temperature Range	-30°C ~ +60°C		
Protective Class	Class I		
Software version	V010000		

Jason Fu

Signature

Name: Jason Fu

Position: Supervisor

Date: 14 June 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230524089GZU-VOC001.

Model	REFUso1 20K-2T (853P020.200)	REFUso1 24K-2T (853P024.200)
Max. DC input voltage	1100V	
Max. Input current	26A/26A	
Max. PV Isc	36A/36A	
Nominal Grid voltage	3/N/PE, 230V/400V	
Rated. Output Current	3*29.0A	3*34.8A
Nominal Grid frequency	50/60Hz	
Rated output Power	20000W	24000W
Rated Apparent Power	20000VA	24000VA
Max. Output power	22000VA	26400VA
Power Factor	1(adjustable +/-0.8)	
Ingress Protection	IP65	
Operating Temperature Range	-30°C ~ +60°C	
Protective Class	Class I	
Software version	V010000	

Jason Fu

Signature

Name: Jason Fu

Position: Supervisor

Date: 14 June 2023

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