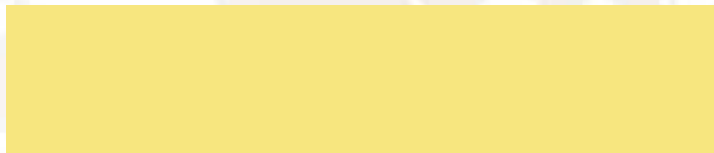




# Certificate of compliance

**Applicant:**



**Product:** Photovoltaic inverter

**Model:** R1-7K-DS, R1-8K-DS, R1-9K-DS, R1-10K-DS, R1-10K5-DS

**Use in accordance with regulations:**

The inverters are tested according to grid protection, specified environmental influences and efficiency. For detailed information, please watch the corresponding test reports.

**Applied rules and standards:**

IEC 61727:2004	Characteristics of the utility interface
IEC 62116:2014	Islanding prevention measures for utility-interconnected photovoltaic inverters.
IEC 60068-2-1:2007	Environmental testing – Part 2-1: Tests – Test A: Cold
IEC 60068-2-2:2007	Environmental testing – Part 2-2: Tests – Test B: Dry heat
IEC 60068-2-14:2009	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
IEC 60068-2-30:2005	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12h + 12 h cycle)
IEC 60068-2-78:2012	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state
IEC 61683:1999	Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
IEC 61000-3-11	Scintillation
IEC 61000-3-2	Harmonic Distortion
IEC 61000-4-7	
NBR 16149:2013	
NBR16150:2013	
IEC 62116:2012	

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:** ABRE-ESH-P21040019-1  
ABRE-ESH-P21040019-2  
ABRE-ESH-P21040019-3  
ABRE-ESH-P21040019-4

**Certification Program:** NSOP-0032-DEU-ZE-V01

**Certificate number:** U21-0641

**Date of issue:** 2021-07-16

**Certification body**



Thomas Lammel

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

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH