



**BUREAU  
VERITAS**

# Certificate of compliance

**Applicant:** Steca Elektronik GmbH  
Mammostr. 1  
87700 Memmingen  
Germany

**Product:** Grid-tied photovoltaic inverter

**Model:** Turbo 1P  
Turbo 1P Mini

## Use in accordance with regulations:

Automatic disconnection device with single-phase mains surveillance in accordance with IEC 61727:2004 and IEC62116:2008 for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverters.

## Applied rules and standards:

### IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

### IEC 62116:2008

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

### IEC 62109-1:2010

Safety of power converters for use in photovoltaic power systems - Part 1: General requirements

### IEC 62109-2:2011

Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters

*The following values according IEC61727 and IEC62116 were applied:*

*under voltage limit (level 1): 195,5V*

*under voltage limit (level 2): 115,0V*

*over voltage limit (level 1): 253,0V*

*overvoltage limit (level 2): 310,0V*

*lower frequency limit: 49,0Hz*

*upper frequency limit: 51,0Hz*

*loss of main detection limit: 2s*

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:** 10TH0241-IEC61727  
10TH0241-IEC62116  
10TH0241-IEC62109-1  
10TH0241-IEC62109-2

**Certificate number:** U16-0151

**Date of issue:** 2016-03-14

## Certification body



Dieter Zitzmann



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