



**BUREAU  
VERITAS**

# Certificate of compliance

**Applicant:** SMA Solar Technology AG  
Sonnenallee 1  
34266 Niestetal  
Germany

**Product:** Photovoltaic inverter

**Model:** STP 50-40  
STP 50-41

## Use in accordance with regulations:

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

## Applied rules and standards:

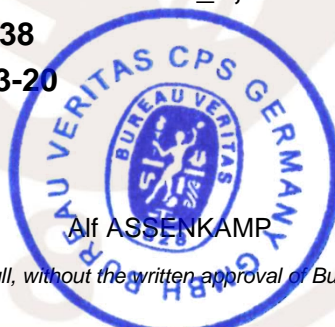
IEC 61727:2004	Characteristics of the utility interface
IEC 62116:2008/2014	Islanding prevention measures for utility-interconnected photovoltaic inverters
IEC 62109-1:2010	Safety of power converters for use in photovoltaic power systems
IEC 62109-2:2011	Safety of power converters for use in photovoltaic power systems
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 60068-2-6:2007	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)
IEC 60068-2-14:2009	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
IEC 60068-2-27:2008	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock
IEC 60068-2-30:2005	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12h + 12 h cycle)
IEC 60068-2-75:1997	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (IEC 62262:2002 – IK code)
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 60529:1989 +A1:1999 + A2:2013	Degrees of protection provided by enclosures (IP Code) IP65

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:** 17TH0199-IEC61727\_0; 17TH0199-IEC61727\_1; 17TH0199-IEC62109-1\_5; 17TH0199-IEC62109-2\_3; Projekt-Nr. 5574; STP50-40-6RTP-T1:LE3017; STP50-40-6RTP-A1:LE3017; STP50-40-6RTP-H2:LE3917; STP50-40-810:LD2517; 17TH0199-IEC61683\_1; 17TH0199-EN60529\_0

**Certificate number:** U23-0238

**Date of issue:** 2023-03-20



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