



**BUREAU
VERITAS**

Certificate of compliance

Applicant: SMA Solar Technology AG
Sonnenallee 1
34266 Niestetal
Germany

Product: Photovoltaic (PV) inverter⁽¹⁾ or battery inverter⁽²⁾

Model: STP 60-10⁽¹⁾
SHP 75-10⁽¹⁾
STPS 60-10⁽²⁾

Use in accordance with regulations:

The inverters are tested for functional 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 –
Part 2: Particular requirements for 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 60068-2-6:2007 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 60068-2-75:1997 Hammer tests (IEC 62262:2002 – IK code)
IEC 60068-2-78:2001 Test cab: Damp heat, steady state
IEC 61683:1999 Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
IEC 60529:1989 Degrees of protection provided by enclosures (IP Code) IP65
+A1:1999 + A2:2013

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.

Note: The efficiency for the STPS 60-10 according to IEC 61683 was tested only in discharge mode and is identical with the SHP 75-10.

Report number: 14TH0075-IEC62109-1_6, 14TH0075-IEC62109-2_5,
14TH0075-IEC61683_1, 14TH0075-IEC61727_0,
MLX60-61_LD5114, MLX60-81_LD5114,
SHP75-10-6RTP-T1:LE4617, SHP75-6RTP-H1:LE4717
ClonePowerUP-710:LE 1518, T206883

Certificate number: U18-0579

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Certification body



Holger Schaffer

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