



Manufacturer's Declaration

Declaration of Conformity submitted by supplier in accordance with PN-EN ISO/IEC 17050-1

We hereby confirm the compliance with the requirements of PN-EN ISO/IEC 17050-1 for all SMA inverters listed in the following table as of the respective firmware version with settings in accordance with EN 50549-1:2019 / EN 50549-2:2019 resulting from the **Commission Regulation (EU) 2016/631 (RfG)**.

The certificates regarding the compliance with VDE 0126-1-1 by an accredited institute and the compliance with the VDE-AR-N 4105 are available at www.SMA-Solar.com.

1. **Declaration no.:** 2020/PL01
2. **Issue data:** SMA Solar Technology AG | Sonnenallee 1 | 34266 Niestetal, Germany
3. **Subject of the declaration:** PV Inverter **Manufacturer:** SMA Solar Technology AG

Inverter family	As of firmware version	EN 50549-1:2019 Low-voltage grid & Type A	EN 50549-2:2019 Medium-voltage grid & Type B
SB1.5-1VL-40 / SB2.0-1VL-40 / SB2.5-1VL-40	3.10.07.R	✓	✗
SB3.0-1AV-41 / SB3.6-1AV-41 / SB4.0-1AV-41 / SB5.0-1AV-41 / SB6.0-1AV-41	3.10.16.R	✓	✗
STP3.0-3AV-40 / STP4.0-3AV-40 / STP5.0-3AV-40 / STP6.0-3AV-40 / STP8.0-3AV-40 / STP10.0-3AV-40	3.10.08.R	✓	✗
STP 15000TL-30 / STP 17000TL-30 / STP 20000TL- 30 / STP 25000TL-30	3.10.05.R	✓	✓
STP 50-40	3.10.06.R	✓	✓
STP 60-10 / SHP 75-10	2.00.012	✗	✓
SI6.0H-13 / SI8.0H-13	3.20.01.R	✓	✗
SI4.4M-13	3.20.01.R	✓	✗
SBS3.7-10 / SBS5.0-10 / SBS6.0-10	3.10.09.R	✓	✗
STPS60-10	2.00.012	✗	✓
SHP150-20 / SHP100-20	3.00.00.R	✗	✓

4. The subject of the declaration described above complies with the requirements of the following documents, determined for PGM installation type A and type B (PN-EN 50549-1:2019/ PN-EN 50549-2:2019)

- a. Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators (Journal of EU L 112/1 z 27.4.2016),
- b. General Application Requirements under the EU Regulation 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators, approved by the decision of January 2, 2019, [DRE.WOSE.7128.550.2.2018.ZJ](#) of the President of the Energy Regulatory Office.

subject to point 5.

5. Additional information:

- a. Setpoint settings
The setpoint settings for individual parameters applicable in Poland complies with the requirements of the documents referred to in point 4, provided that the value of a given parameter has been specified there.

The setting of the correct country data set "[EU] EN50549-1:2018"/ "[EU] EN50549-2:2018" is carried out via the user interface of the product (see product manual). For firmware version requirements of the products see the table above.

For the country data set "[EU] EN50549-1:2018"/"[EU] EN50549-2:2018", the following parameters must be set (see technical information "SMA GRID GUARD 10.0")

Parameters	Values related to nominal voltage	Values
Undervoltage protection [U<]	0.85	195.5 V / < 1.5 sec
Overvoltage protection for the 10 min average value [U>].	1.1	253.0 V / < 3.0 sec
Overvoltage protection [U>]	1.15	264.5 V / < 0.2 sec
Underfrequency protection [f<]		47.5 Hz / < 0.5 sec
Overfrequency protection [f>]		52 Hz / < 0.5 sec
Islanding detection		5.0 sec
Reactivation time after disconnection from utility grid		60 sec

Furthermore, when selecting the above-mentioned country data set, SMA Solar Technology AG declares that the active power is reduced at overfrequency depending on the frequency value (LFSM-O) For standard values and adjustable ranges see the following table:

Parameter LFSM-O	Default value	Range
Activation limiting value	50.2 Hz	50.2 Hz to 50.5 Hz
Gradient or droop	5 %	2% to 12%

6. Signed on behalf of:

Niestetal, 2020-09-15

SMA Solar Technology AG



i.V. Sven Bremicker
Head of Technology Development Center