



**BUREAU
VERITAS**

Certificate of compliance

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

Product: Photovoltaic (PV) inverter

Model: STP 125-70

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

C10/11:2021-03

Specific technical requirements for generator in parallel operation with the distribution network

- D.3 Interface protection
- D.4 Operating ranges
- D.5 Immunity to disturbances
- D.6 Active response to frequency deviation
- D.7 Power response to voltage changes
- D.8 Connection and reconnection
- D.9 Ceasing and reduction of active power on set point

Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).
Type approval for generation units to use in Type A and Type B plants.

At the time of issue of this certificate, the representative product listed above corresponds to the stated rules and standards.

Report number: SGR-ESH-P23121838

Certification program: NSOP-0032-DEU-ZE-V01

Certificate number: U24-0412

Date of issue: 2024-06-21

Certification body


Dörnerik Koll
Head of Energy Systems



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

Testing laboratory accredited according to DIN EN ISO/IEC 17025

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



BUREAU
VERITAS

Annex to the C10/11 certificate of compliance No. U24-0412

Appendix

Extract from test report according to C10/11 Nr. SGR-ESH-P23121838

Type Approval and declaration of compliance with the requirements of Commission Regulation (EU) 2016/631 of 14 April 2016 and C10/11 for Belgium

Manufacturer / applicant	SMA Solar Technology AG Sonnenallee 1, 34266 Niestetal Germany
---------------------------------	--

Generator Type	Photovoltaic inverter			
	STP 125-70	--	--	--
MPP DC voltage range [V]	180-1000	--	--	--
Max. input DC voltage [V]	1100	--	--	--
Max. input DC current [A]	12*30	--	--	--
Nominal output AC voltage [V]	3L/N/PE, 230, 50/60Hz	--	--	--
Max. output AC current [A]	181,1	--	--	--
Max. Output power [kVA]	125	--	--	--

Firmware version	4.X.X.R*
-------------------------	----------

Description of the structure of the power generation unit:

The power generation unit is equipped with a PV and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in (each) line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.

Note:
* The tests were performed with firmware version 4.0.0.R changes in the firmware version on position 4.X.X have no effect on the required electrical properties. "X" could be any number (or sign) higher (newer) than the tested version.

Note:

The settings of the interface protection are password protected adjustable.
In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted for each plants depending on the site specific requirements.
The above stated generators are tested according to the requirements in the C10/11 for Belgium. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.