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Certificate of compliance

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

Product: **Battery inverter**

Model: **STPS30-20**
STPS50-20
SI30-20
SI50-20

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:

IEC 61727:2004
Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2008 / IEC 62116:2014
Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

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: **22TH0488-IEC61727-
IEC62116_0**

Certification Program:

NSOP-0032-DEU-ZE-V10

Certificate number: **U24-1084**

Date of issue:

2024-11-20

Certification body

Accreditation



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkks) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkks) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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Annex certificate of conformity No. U24-1084

Extract from test report 22TH0488-IEC61727-IEC62116_0 issued by a testing laboratory accredited by “Deutsche Akkreditierungsstelle GmbH (DAkkS)” according to ISO/IEC 17025. The accreditation is only valid for the scope listed in the annex of the accreditation certificate “D-PL-12024-03-04”.

Type Approval and declaration of compliance with the requirements of IEC 61727:2004, IEC 62116:2008 / IEC 62116:2014				
Manufacturer	SMA Solar Technology AG Sonnenallee 1 34266 Niestetal Germany			
Product type	Battery Inverter			
Static converter model	STPS30-20	STPS50-20	SI30-20	SI50-20
Input (DC battery)				
DC voltage range [V]	200 - 980	200 - 980	200 - 980	200 - 980
Max. DC voltage [V]	980	980	980	980
Max. DC current per DC input [A]	150	150	150	150
Output (AC)				
Rated AC voltage [V]	400	400	400	400
Rated output current [A]	45,6	75,5	45,6	75,5
Max. output current [A]	61	90	61	90
Nom. converter output (P_{NINV}) [W]	30000	50000	30000	50000
Rated apparent power [VA]	30000	50000	30000	50000
In on-grid battery mode AC				
P_{sn} (nom. discharge power) [W]	30000	50000	30000	50000
P_{cn} (nom. charging power) [W]	30000	50000	30000	50000
P_{smax} (max. discharge power) [W]	30000	50000	30000	50000
P_{cmax} (max. charging power) [W]	30000	50000	30000	50000
Type	Bidirectional	Bidirectional	Bidirectional	Bidirectional
In off-grid battery mode AC				
P_{sn} (nom. discharge power) [kW]	N/A	N/A	30000	50000
P_{smax} (max. discharge power) [kW]	N/A	N/A	30000	50000



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Interface protection system and interface switch (Network and system protection "NS-protection")	
Type of protection	Integrated NS-protection
Assigned to generation unit type	STPS30-20 STPS50-20 SI30-20 SI50-20
Integrated interface switch	Type of switching equipment 1: Relay / Type of switching equipment 2: Relay Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.
Firmware version	03.02.25.R
Note	The settings of the interface protection are password protected adjustable.