



Dichiarazione di conformità del generatore

Sez A: I seguenti generatori rispettano le prescrizioni della norma CEI 0-21:2022-03			
Costruttore	SMA Solar Technology AG, Sonnenallee 1, 34266 Niestetal, Germany		
Tipo apparecchiatura	Inverter per accumulo di energia		
Marca	Sunny Island		
N. fasi	Monofase - Frequenza: 50 Hz - Tensione: 230 V		
Energia primaria utilizzata	Accumulo (v. RdP All. Bbis)		
Modello	SI4.4M-13	SI6.0H-13	SI8.0H-13
Potenza nominale	3.300 W	4.600 W	6.000 W
Il generatore	<ul style="list-style-type: none"> • È idoneo per installazione in impianti con potenza superiore a 11,08 kW • È in grado di limitare la I_{dc} allo 0,5% della corrente nominale • Utilizza una funzione di protezione sensibile alla corrente continua • È conforme ai profili di OVRT definiti nel capitolo 8.5.1. 		

Sez. C: Caratteristiche del convertitore statico			
Modello	SI4.4M-13	SI6.0H-13	SI8.0H-13
Costruttore	SMA Solar Technology AG		
Versione FW	3.21.04.R e superiore		
Potenza nominale (P_{NINV})	3.300 W	4.600 W	6.000 W



Sez. E: Caratteristiche del Sistema di Accumulo (SdA)			
Modello	SI4.4M-13	SI6.0H-13	SI8.0H-13
P_{sn} (potenza di scarica nom.)	3.300 W	4.600 W	6.000 W
P_{cn} (potenza di carica nom.)	3.300 W	4.600 W	6.000 W
P_{smax} (potenza di scarica max.)	3.300 W	4.600 W	6.000 W
P_{cmax} (potenza di carica max.)	3.300 W	4.600 W	6.000 W
Tipologia	Bidirezionale		

Sez. E: Batterie utilizzabili con i convertitori statici sopra riportati				
Marca	LG Energy Solution			
Tecnologia	Ioni di Litio (Li-Ion)			
Modelli	RESU6.5	RESU10	RESU12	RESU13
CUS (kWh)	6,5	9,8	11,7	13,1
Versione firmware BMS	≥1.7.0.3	≥1.7.0.3	≥2.0.0.0	≥1.7.0.3
N.moduli	1	1	1	1
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.			
Marca	BYD Company Limited			
Tecnologia	Ioni di Litio (Li-Ion)			
Modelli	Battery-Box LV 7.0	Battery-Box LV 10.5	Battery-Box LV 14.0	
CUS (kWh)	7	10,5	14	
Versione firmware BMS	≥1.0			
N.moduli	2	3	4	
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.			
Marca	BYD Company Limited			
Tecnologia	Ioni di Litio (Li-Ion)			
Modelli	Battery-Box			



	Pro 5.0	Pro 7.5	Pro 10.0	Pro 13.8
CUS (kWh)	5,12	7,68	10,24	13,8
Versione firmware BMS	≥2.7			
N.moduli	2	3	4	2
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.			
Marca	BYD Company Limited			
Tecnologia	Ioni di Litio (Li-Ion)			
Modelli	Battery-Box Premium LVL			
CUS (kWh)	15,368			
Versione firmware BMS	BMU ≥1.8 BMS ≥1.3			
N.moduli	2			
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.			
Marca	BYD Company Limited			
Tecnologia	Ioni di Litio (Li-Ion)			
Modelli	Battery-Box Premium			
	LVS 8.0	LVS 12.0	LVS 16.0	LVS 20.0
CUS (kWh)	8,0	12,0	16,0	20,0
Versione firmware BMS	BMU ≥1.19 BMS ≥1.8			
N.moduli	2	3	4	5
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.			
Marca	Tevsolt Company Limited			
Tecnologia	Ioni di Litio (Li-Ion)			
Modelli	TS 25	TS 40	TS 50	
CUS (kWh)	9,6 - 24	28,8 - 38,4	43,2 - 48	
Versione firmware BMS	≥1.06			
N.moduli	2 - 5	6 - 8	9 - 10	
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le			



	normative locali.				
Marca	BMZ Company Limited				
Tecnologia	Ioni di Litio (Li-Ion, NMC la grafite)				
Modelli	ESS 7.0		ESS 9.0		
CUS (kWh)	6,74		8,5		
Versione firmware BMS	≥2.04				
N.moduli	1		1		
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				
Marca	AXITEC Energy				
Tecnologia	Ioni di Litio (Li-Ion)				
Modelli	AXIstorage Li 7 S		AXIstorage Li 9 S		
CUS (kWh)	6,8		8,5		
Versione firmware BMS	≥2.04		≥2.06		
N.moduli	1		1		
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				
Marca	IBC Solar				
Tecnologia	Ioni di Litio (Li-Ion, NMC la grafite)				
Modelli	SolStore 6.5 Li		SolStore 10.0 Li		
CUS (kWh)	6,5		10		
Versione firmware BMS	≥2.06				
N.moduli	1		1		
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				
Marca	GS HUB GmbH				
Tecnologia	Ioni di Litio (Li-Ion, LiFePo4)				
Modelli	HomeHub 5.0	HomeHub 7.5	HomeHub 10.0	HomeHub 12.5	HomeHub 15.0 17.5 20.0



CUS (kWh)	5	7,5	10	12,5	15 - 20
Versione firmware BMS	BMS ≥3.14 BMU ≥8.6				
N.moduli	2	3	4	5	6 - 8
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				
Marca	Pylontech				
Tecnologia	Ioni di Litio (Li-Ion, LiFePo4)				
Modelli	US2000 (C)				
CUS (kWh)	4,8	7,2	9,6	12,0	14,4
Versione firmware BMS	≥ 2.9 (US2000) ≥ 2.1 (US2000C)				
N.moduli	2	3	4	5	6
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				
Marca	Pylontech				
Tecnologia	Ioni di Litio (Li-Ion, LiFePo4)				
Modelli	US3000 (C)				
CUS (kWh)	7,1	10,7	14,2	17,7	21,3
Versione firmware BMS	≥ 2.9 (US3000) ≥ 2.1 (US3000C)				
N.moduli	2	3	4	5	6
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				
Marca	Pylontech				
Tecnologia	Ioni di Litio (Li-Ion, LiFePo4)				
Modelli	US5000				
CUS (kWh)	4,8	9,6	14,4	19,2	24
Versione firmware BMS	≥ 1.0 (US5000)				
N.moduli	1	2	3	4	5
Note	Le batterie non sono integrate nell'inverter e devono essere installate secondo le normative locali.				



Sez. I: Riferimenti dei laboratori che hanno eseguito le prove e dei relativi rapporti di prova	
Metodo prescelto	Prove eseguite da laboratorio accreditato
Rapporti di prova (RdP)	13TH0287-CEI 0-21:2020_1 *
Emessi da	Bureau Veritas Consumer Products Services Germany GmbH
N. accreditamento	Accreditamento a DAkkS, D-PL-12024-03-03
Rif. ente accreditamento	Rif. DIN EN ISO / IEC 17025
* Per la certificazione delle apparecchiature di cui sopra, non è necessario ripetere le prove già effettuate con riferimento alle precedenti edizioni della norma CEI 0-21: 2022-03.	
Sez. L: Dichiarazione di conformità alle prescrizioni CEI 0-21	
Con la presente dichiarazione, redatta ai sensi dell'articolo 47 del DPR 28 dicembre 2000, n° 445, il sottoscritto Sven Bremicker, persona autorizzata ai sensi del §§ 54 segg. HGB della società SMA Solar Technology AG, con sede in Sonnenallee 1, Niestetal, Hessen, Germania,	
DICHIARA	
che i prodotti di propria costruzione sono conformi alle prescrizioni contenute nelle Norme:	
CEI 0-21:2022-03	
Attesta altresì che la produzione dei dispositivi avviene in regime di qualità (secondo ISO 9001, ed. 2000 e s.m.i.)	

Niestetal, 01.09.2022

SMA Solar Technology AG

i.V. Sven Bremicker

Head of Technology Development Center

/bk

- UVZ-Nr. 549 für 2022-

I hereby certify, that the above is the true signature, subscribed in my presence, of


**Mr. Sven Bremicker, born on 2th of February 1975
business address Sonnenallee 1, 34266 Niestetal,
- personally known by the notary -**

acting on behalf of SMA Solar Technology AG, D-34266 Niestetal Sonnenallee 1.
under the document ZE_CEI021_ZE_CEI021_SI-13_it_14 6/6.

I asked Mr. Bremicker whether I or any member of my firm had acted in the matter which is the subject of this instrument, except in a notarial capacity. He replied in the negative. I am able to state as well that I have not been involved in the matter before.

Kassel, 01.09.2022




Stephan Keil
Notary

CERTIFICATE

Management system as per
DIN EN ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

SMA Solar Technology AG
Sonnenallee 1
34266 Niestetal
Germany



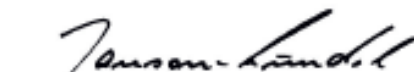
operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

The realization of tasks as well as the production and the distribution of products in the areas of Common Measurement and Close Loop Control Technology, the Microprocessor Technology, the power electronics, the electrical energy power supply as well as the Data System Technology, in particular, in the area of photovoltaic industry. All these activities involve consulting, development, sales and production of software and hardware.

Certificate Registration No. 08 100 971 814
Audit Report No. 3528 8488

Valid from 2021-10-01
Valid until 2024-09-30
Initial certification 1997



Certification Body
at TÜV NORD CERT GmbH

Essen, 2021-08-10

Validity can be verified at <https://www.tuev-nord.de/de/unternehmen/zertifizierung/zertifikatsdatenbank>.

TÜV NORD CERT GmbH

Langemarkstraße 20

45141 Essen

www.tuev-nord-cert.com



Deutsche
Akkreditierungsstelle
D-ZM-12007-01-00



**BUREAU
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Certificate of compliance

with the requirements of the standard CEI 0-21

**CERTIFICATION
ORGANIZATION:**

Bureau Veritas Consumer Products Services Germany GmbH
Accreditation to DAkkS, D-ZE-12024-01-00, ref. to DIN EN ISO/IEC 17065

STANDARD / GUIDE:

CEI 0-21: 2019-04
CEI 0-21: V1: 2020-12 Edition December 2020
Reference technical rules for the connection of active and passive users to the LV electrical utilities.

TYPE OF SYSTEM DECLARED:

INTERFACE DEVICE	PROTECTION INTERFACE	STATIC ELECTRONIC INVERTER	ROTATING GENERATION MACHINE
		X	

MANUFACTURER:

SMA Solar Technology AG
Sonnenallee 1
32466 Niestetal
Germany

PRODUCT TYPE:	Inverter for storage systems (comply with annex Bbis Storage system tests)			
MODEL:	SI4.4M-13	SI6.0H-13	SI8.0H-13	--
NOMINAL POWER [kW]:	3,3	4,6	6,0	--

FIRMWARE VERSION:

Beginning with 03.21.04.R

PHASE NUMBER:

Single-Phase

NOTE:

The device is equipped with HV isolation transformer.
The device is for plants of each power.
The inverters of SMA Solar Technology AG have a maximum apparent power limit. In the case where a system should be able to reach in every working condition a determined power factor, it is necessary to set the maximum active power in such a way, that you can reach at any time the $\cos \varphi$ wanted

LABORATORY THAT HAS DONE THE TESTING:

Bureau Veritas Consumer Products Services Germany GmbH
Accreditation to DAkkS, D-PL-12024-03-03, ref. to DIN EN ISO/IEC 17025

After verifying the ISO 9001 of the Manufacturer with No. 08100971814, issued by TÜV NORD CERT GmbH and verifying the test reports according to CEI 0-21 with No. 13TH0287-CEI 0-21:2020_2, issued by the laboratory Bureau Veritas Consumer Products Services Germany GmbH and verifying the EMC test report with No. 511:LE3319, issued laboratory SMA Solar Technology AG accredited by DAkkS (No. D-PL-12074-02-00), the listed products are conform with the requirements according to CEI 0-21: 2019-04, CEI 0-21: V1: 2020-12.

Certificate number:

U22-0138

Certification Program:

NSOP-0032-DEU-ZE-V01

Data of issue:

2022-03-08



Certification body 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 approval of Bureau Veritas Consumer Products Services Germany GmbH

Table Storage system

Extracts from test report

No. 13TH0287-CEI 0-21:2020_2

**Inverter for storage systems
(comply with annex Bbis Storage system tests)**

Manufacturer:	SMA Solar Technology AG Sonnenallee 1 32466 Niestetal Germany			
Model:	SI4.4M-13	SI6.0H-13	SI8.0H-13	--
Nominal Power[kW]:	3,3	4,6	6,0	--
Firmware version:	Beginning with 03.21.04.R			
Number of phases (single-phase/three-phase):	Single-Phase			

The inverters listed above may be installed with the following batteries:

Manufacturer:	LG Energy Solution			
Accumulator Model / Battery Model:	RESU6.5	RESU10	RESU12	RESU13
Overall battery capacity (kWh):	6,5	9,8	11,7	13,1
Number(s) of battery modules recommended by the manufacturer:	1	1	1	1

Note:

The batteries are not integrated into the inverter and must be installed according to the local regulations.

Manufacturer:	BYD Company Limited			
Accumulator Model / Battery Model:	Battery-Box L 7.0	Battery-Box LV L 10.5	Battery-Box LV L 14.0	--
Overall battery capacity (kWh):	7	10,5	14	--
Number(s) of battery modules recommended by the manufacturer:	2	3	4	--

Note:

The batteries are not integrated into the inverter and must be installed according to the local regulations.

Manufacturer:	BYD Company Limited			
Accumulator Model / Battery Model:	Battery-Box Pro 5.0	Battery-Box Pro 7.5	Battery-Box Pro 10.0	Battery-Box Pro 13.8
Overall battery capacity (kWh):	5,12	7,68	10,24	13,8
Number(s) of battery modules recommended by the manufacturer:	2	3	4	2

Note:

The batteries are not integrated into the inverter and must be installed according to the local regulations.



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Manufacturer:	BYD Company Limited			
Accumulator Model / Battery Model:	Battery-Box Premium LVL	--	--	--
Overall battery capacity (kWh):	15,36	--	--	--
Number(s) of battery modules recommended by the manufacturer:	2	--	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	BYD Company Limited			
Accumulator Model / Battery Model:	Battery Box Premium			
	LVS 8.0	LVS 12.0	LVS 16.0	LVS 20.0
Overall battery capacity (kWh):	8,0	12,0	16,0	20
Number(s) of battery modules recommended by the manufacturer:	2	3	4	5
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	BYD Company Limited			
Accumulator Model / Battery Model:	Battery Box Premium			
	LVS 24.0	--	--	--
Overall battery capacity (kWh):	24,0	--	--	--
Number(s) of battery modules recommended by the manufacturer:	6	--	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	Tescvlt Company Limited			
Accumulator Model / Battery Model:	TS 25	TS 40	TS 50	--
Overall battery capacity (kWh):	9,6 - 24	28,8 – 38,4	43,2 - 48	--
Number(s) of battery modules recommended by the manufacturer:	2 - 5	6 - 8	9 - 10	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	BMZ Company Limited			
Accumulator Model / Battery Model:	ESS 7.0	ESS 9.0	--	--
Overall battery capacity (kWh):	6,8	8,5	--	--
Number(s) of battery modules recommended by the manufacturer:	1	1	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	AXITEC Energy			
Accumulator Model / Battery Model:	AXIstorage Li 7 S	AXIstorage Li 9 S	--	--
Overall battery capacity (kWh):	6,8	8,5	--	--
Number(s) of battery modules recommended by the manufacturer:	1	1	--	--



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Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	IBC Solar			
Accumulator Model / Battery Model:	SolStore 6.5 Li	SolStore 10.0 Li	--	--
Overall battery capacity (kWh):	6,5	10	--	--
Number(s) of battery modules recommended by the manufacturer:	1	1	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	GS HUB GmbH			
Accumulator Model / Battery Model:	HomeHub			
	HomeHub 5.0	HomeHub 7.5	HomeHub 10.0	HomeHub 12.5
Overall battery capacity (kWh):	5,0	7,5	10,0	12,5
Number(s) of battery modules recommended by the manufacturer:	2	3	4	5
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	GS HUB GmbH			
Accumulator Model / Battery Model:	HomeHub			
	HomeHub 15.0, 17.5, 20.0	--	--	--
Overall battery capacity (kWh):	15 – 20	--	--	--
Number(s) of battery modules recommended by the manufacturer:	6 - 8	--	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	Pylontech			
Accumulator Model / Battery Model:	US2000 (C)			
Overall battery capacity (kWh):	4,8	7,2	9,6	12,0
Number(s) of battery modules recommended by the manufacturer:	2	3	4	5
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	Pylontech			
Accumulator Model / Battery Model:	US2000 (C)			
Overall battery capacity (kWh):	14,4	14,4	14,4	14,4
Number(s) of battery modules recommended by the manufacturer:	6	6	6	6
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				



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Manufacturer:	Pylontech			
Accumulator Model / Battery Model:	US3000 (C)			
Overall battery capacity (kWh):	7,1	10,7	14,2	17,7
Number(s) of battery modules recommended by the manufacturer:	2	3	4	5
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	Pylontech			
Accumulator Model / Battery Model:	US3000 (C)			
Overall battery capacity (kWh):	21,3	--	--	--
Number(s) of battery modules recommended by the manufacturer:	6	--	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	Pylontech			
Accumulator Model / Battery Model:	US5000 (C)			
Overall battery capacity (kWh):	4,8	9,6	14,4	19,2
Number(s) of battery modules recommended by the manufacturer:	1	2	3	4
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				
Manufacturer:	Pylontech			
Accumulator Model / Battery Model:	US5000 (C)			
Overall battery capacity (kWh):	24	--	--	--
Number(s) of battery modules recommended by the manufacturer:	5	--	--	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.				