

Dichiarazione di conformità alle prescrizioni della Norma CEI 0-21
Declaration of conformity to the requirements of the standard CEI 0-21

1. TIPOLOGIA DI APPARECCHIATURA CUI SI RIFERISCE LA DICHIARAZIONE:
TYPE OF DEVICE TO WHICH THIS DECLARATION REFERS:

Dispositivo di conversione statica <i>Static conversion device</i>	Dispositivo di interfaccia <i>Interface device</i>	Protezione di interfaccia <i>Interface protection</i>	Dispositivo di generazione rotante <i>Rotary generating device</i>
SI / YES	SI / YES (*)	SI / YES (*)	NO

COSTRUTTORE <i>MANUFACTURER</i>	MODELLO <i>MODEL</i>	VERSIONE FIRMWARE <i>FIRMWARE VERSION:</i>	NUMERO DI FASI <i>(monofase/trifase)</i> <i>NUMBER OF PHASE</i> <i>(single/threephase)</i>	POTENZA NOMINALE <i>RATED POWER</i>
SUNGROW POWER SUPPLY CO.LTD. Stabilimento: No. 1699 Xiyou Rd., New & High Technology Industrial Development Zone Hefei, 230088 Anhui, P.R.China	SH3.0RS	ARM_SUNSTONE-H_V11_V01_A MDSP_SUNSTONE-H_V11_V01_A	Monofase <i>Singlephase</i>	3.000 W
	SH3.6RS			3.680 W
	SH4.0RS			4.000 W
	SH5.0RS			5.000 W
	SH6.0RS			6.000 W

(*) applicabile ad impianti di potenza nominale $\leq 11,08$ kW
applicable to installations with a rated power $\leq 11,08$ kW

NOTA: Il dispositivo è in grado di limitare la I_{dc} allo 0,5% della corrente nominale.
REMARK: The device is capable to limit I_{dc} to 0,5% of the rated current.

BATTERIE UTILIZZABILI CON GLI INVERTER IN OGGETTO

COSTRUTTORE	BYD CO.LTD.				
MODELLO	HVS 5.1	HVS 7.7	HVS 10.2		
TECNOLOGIA	Litio Ferro Fosfato				
CAPACITÀ NOMINALE DEL SINGOLO MODULO (kWh)	2.56				
NUMERO DI MODULI BATTERIA RACCOMANDATI	2	3	4		
CUS (CAPACITÀ UTILE DEL SISTEMA) (kWh)	5.12	7.68	10.24		
	CON 2 MODULI BATTERIA				
	SH3.0RS	SH3.6RS	SH4.0RS	SH5.0RS	SH6.0RS
PSN (POTENZA DI SCARICA NOMINALE) (kW)	3.0	3.68	4.0	5.0	5.1
PCN (POTENZA DI CARICA NOMINALE) (kW)	3.0	3.68	4.0	5.0	5.1
PSMAX (POTENZA DI SCARICA MASSIMA) (kW)	3.0	3.68	4.0	5.0	6.0
PCMAX (POTENZA DI CARICA MASSIMA) (kW)	3.0	3.68	4.0	5.0	6.0
	CON 3, 4 MODULI BATTERIA				
	SH3.0RS	SH3.6RS	SH4.0RS	SH5.0RS	SH6.0RS
PSN (POTENZA DI SCARICA NOMINALE) (kW)	3.0	3.68	4.0	5.0	6.0
PCN (POTENZA DI CARICA NOMINALE) (kW)	3.0	3.68	4.0	5.0	6.0
PSMAX (POTENZA DI SCARICA MASSIMA) (kW)	3.0	3.68	4.0	5.0	6.0
PCMAX (POTENZA DI CARICA MASSIMA) (kW)	3.0	3.68	4.0	5.0	6.0

COSTRUTTORE	BYD CO.LTD.					
MODELLO	HVM 8.3	HVM 11.0	HVM 13.8	HVM 16.6	HVM 19.3	HVM 22.1
TECNOLOGIA	Litio Ferro Fosfato					
CAPACITÀ NOMINALE DEL SINGOLO MODULO (kWh)	2.76					
NUMERO DI MODULI BATTERIA RACCOMANDATI	3	4	5	6	7	8
CUS (CAPACITÀ UTILE DEL SISTEMA) (kWh)	8.28	11.04	13.80	16.56	19.32	22.08
	CON 3, 4, 5, 6, 7, 8 MODULI BATTERIA					
	SH3.0RS	SH3.6RS	SH4.0RS	SH5.0RS	SH6.0RS	
PSN (POTENZA DI SCARICA NOMINALE) (kW)	3.0	3.68	4.0	5.0	6.0	
PCN (POTENZA DI CARICA NOMINALE) (kW)	3.0	3.68	4.0	5.0	6.0	
PSMAX (POTENZA DI SCARICA MASSIMA) (kW)	3.0	3.68	4.0	5.0	6.0	
PCMAX (POTENZA DI CARICA MASSIMA) (kW)	3.0	3.68	4.0	5.0	6.0	

Riferimento del laboratorio che ha eseguito le prove e dei relativi fascicoli di prova
Reference of the laboratory which carried out the tests and of the relative test dossiers

Numero di certificato / *Certificate number*: COCPVP07086/21E-01

Test report n° : TRPVP07086/21E/01 dated 13.09.2021

Emesso da / *issued by*:

TÜV NORD (HANGZHOU) CO., LTD, Floor 5, No. 50, Jiuquan Road, Jianggan District Hangzhou, 310019, P.R. China.

In accordo con / *In compliance with*: DIN EN ISO/IEC 17065:2012

Laboratorio accreditato da / *Laboratory Accredited by* CNAS

Numero di accreditamento / *Accreditation number*: CNAS C183-P

2. Dichiarazione di conformità alle prescrizioni della norma CEI 0-21:2019-04

Declaration of conformity to the requirements of the standard CEI 0-21:2019-04

Con la presente dichiarazione, resa ai sensi degli artt. 46 e 47 DPR 28 Dicembre 2000, n. 445, consapevole delle responsabilità e delle sanzioni penali previste dall'art. 76 del citato DPR per false attestazioni e dichiarazioni mendaci, il sottoscritto Huang Jie, residente a No.1699 Xiyou Rd., New & High Technology Industrial Development Zone, Hefei, P. R. China., 230088, Certification Ingegnere della società SUNGROW POWER SUPPLY CO.LTD con sede in Xiyou road n°1699, 230088 Hefei – Anhui, P.R. China, iscritta al registro delle imprese Hefei Administration for Industry & Commerce con n° di registrazione 913401001492097421 (3-3)

With this declaration, made pursuant to articles 46 and 47 of Presidential Decree 28 December 2000, n. 445, aware of the responsibilities and penal sanctions provided for by art. 76 of the aforementioned DPR for false statements and false declarations, the undersigned Huang Jie, born in P.R. China the No.1699 Xiyou Rd., New & High Technology Industrial Development Zone, Hefei, P. R. China., 230088 as certification engineer of the company SUNGROW POWER SUPPLY CO.LTD based in Xiyou road No. 1699, 230088 Hefei - Anhui, P.R. China, registered in the business register of Hefei Administration for Industry & Commerce with registration no. 913401001492097421 (3-3)

DICHIARA
DECLARE

Che l'inverter di propria produzione di cui al punto 1 è conforme alle prescrizioni contenute nella norma CEI 0-21:2019-04. Attesta altresì che la produzione dei dispositivi avviene in regime di qualità (secondo ISO 9001, ed. 2000 e s.m.i.) / *That the inverter of own production referred to in point 1 complies with the requirements contained in the CEI 0-21:2019-04 standard. It also certifies that the production of the devices takes place in a quality regime (according to ISO 9001, ed. 2000 and subsequent modifications and supplements).*

Hefei, li 13.09.2021

Firma del dichiarante/ *Signature of the declarant*



.....

Certificate of Conformity

Registered No.:
COCPVP07086/21E-01

File reference
PVP07086/21E-01

Test report No.
TRPVP07086/21E/01

Date of issue
2021-09-13

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Sungrow Power Supply Co., Ltd.**
No. 1699 Xiyou Rd., New & High Technology Industrial Development Zone Hefei, Anhui 230088, P. R. China

Manufacturer: **Sungrow Power Supply Co., Ltd.**
No. 1699 Xiyou Rd., New & High Technology Industrial Development Zone Hefei, Anhui 230088, P. R. China

Factory 1: **Sungrow Power Supply Co., Ltd.**
No. 1699 Xiyou Road, New & High Technology Industrial Development Zone, Hefei City, Anhui Province, 230088, P.R China

Factory 2: **Sungrow Power Supply Co., Ltd.**
No. 608, Changning Avenue, New & High Technology Industrial, Development, Zone, 230088 Hefei City, Anhui Province, PEOPLE'S REPUBLIC OF CHINA

Factory 3: **Sungrow Developers (India) Private Limited**
No. 85, kanmike village, Kengeri hobli, Bangalore South Taluk, 560074 Bangalore, INDIA

Product: GRID-CONNECTED HYBRID INVERTER

Type designation: SH3.0RS, SH3.6RS, SH4.0RS, SH5.0RS, SH6.0RS
Single-phase, Firmware version: ARM_SUNSTONE-H_V11_V01_A;
MDSP_SUNSTONE-H_V11_V01_A

Type of equipment:

- Interface device
- Interface protection
- Static conversion device
- Rotary generation device

Remark: The device is for plants of each power.



Certification fundamental(s): BOS-P-01 Rev. 00

Standard(s): CEI 0-21:2019-04 "Reference technical rules for the connection of active and passive users to the LV electrical Utilities"
See test report for detailed information.

Certification body: **TÜV NORD (HANGZHOU) CO., LTD.**
Room 217, Building 17, No.57 Kejiyuan Road, Baiyang Street, HEDA, Hangzhou, Zhejiang Province 310018, China
Accredited by CNAS according to ISO/IEC 17065:2012, certificate no. CNAS C183-P.

Testing laboratory: **Dongguan BALUN Testing Technology Co., Ltd.**
Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China
Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Conclusion: After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21:2019-04.

- ISO 9001 certificate:
Certificate no. CN15/21022.00, issued by SGS United Kingdom Ltd.
- Test report of CEI 0-21:2019-04:
Report no. BL-DG2170890-B01, issued by Dongguan BALUN Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701
- Test report of EMC:
Report no. 64.722.21.80032.01, issued by TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch, accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L3584.
Report no. C21-267-WT-02, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L0130

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



Renewable Energy

ESS-T-012 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Description of product(s):

Model types:	SH3.0RS	SH3.6RS	SH4.0RS	SH5.0RS	SH6.0RS
General information					
Firmware:	ARM_SUNSTONE-H_V11_V01_A; MDSP_SUNSTONE-H_V11_V01_A				
PV input					
Vmax PV [V d.c.]:	600				
Mpp voltage range [V d.c.]:	40 - 560				
Isc PV [A d.c.]:	20/20	20/20	20/20	20/20	20/20
Max. input current [A d.c.]:	16/16	16/16	16/16	16/16	16/16
Overvoltage category (OVC):	II				
AC output (Grid Side) parameters					
Rated output voltage [V a.c.]:	220/230/ 240				
Rated output frequency [Hz]:	50/60				
Rated output power [W]:	3000	3680	4000	5000	6000
Max. apparent power [VA]:	3000	3680	4000	5000	6000
Max. output current [A a.c.]:	13.7	16.0	18.2	22.8	27.3
Power factor cosφ [λ]:	0.8 leading ... 1 ... 0.8 lagging				
Overvoltage category (OVC):	III				
Battery parameters					
Battery Type:	Li-ion				
Voltage range[V d.c.]:	80 - 460				
Max. Charge Current [Ad.c.]:	30	30	30	30	30
Max. Discharge Current [Ad.c.]:	30	30	30	30	30



Renewable Energy

ESS-T-012 COC

中国认可
产品PRODUCT
CNAS C183-P
 TÜV NORD (HANGZHOU) CO., LTD.
 Member of TÜV NORD Group
 Tel: +86-571-85386989
 Fax: +86-571-85386986
 www.tuv-nord.com/cn
 P.R. China

AC output (Back-up) parameters:					
Rated output voltage [V a.c.]:	220/230/ 240				
Rated output frequency [Hz]:	50/60				
Rated output power [W]:	3000	3680	4000	5000	6000
Max. apparent power [VA]:	3000	3680	4000	5000	6000
Max. output current [A a.c.]:	13.7	16.0	18.2	22.8	27.3
Power factor $\cos\phi$ [λ]:	0 leading ... 1 ... 0 lagging				

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

Manufacturer	BYD Company Limited		
Accumulator Model / Battery Model	HVS 5.1	HVS 7.7	HVS 10.2
Capacity of each battery module (kWh)	5.12	7.68	10.24
Number(s) of battery modules recommended by the manufacturer	2	3	4
Accumulator Model / Battery Model	HVM 8.3	HVM 11.0	HVM 13.8
Capacity of each battery module (kWh)	8.28	11.04	13.80
Number(s) of battery modules recommended by the manufacturer	3	4	5
Accumulator Model / Battery Model	HVM 16.6	HVM 19.3	HVM 22.1
Capacity of each battery module (kWh)	16.56	19.32	22.08
Number(s) of battery modules recommended by the manufacturer	6	7	8
Note:			
The batteries are not integrated into the inverter and must be installed according to the local regulations.			



Renewable Energy

ESS-T-012 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China