

DICHIARAZIONE DI CONFORMITÀ alla norma CEIO-21:2019-04

1. Tipologia di Apparecchiatura cui si riferisce la dichiarazione			
Costruttore Manufacturer	Shenzhen Growatt New Energy technology Co., LTD 2F and 3F, Building 4, Jiayu Company Industrial Park, Xibianling, Shangyu Village, Shiyan Street, Bao'an District, Shenzhen, China		
Tipo apparecchiatura Product Type	Dispositivo di Interfaccia	Protezione di Interfaccia	Dispositivo di conversione statica
	SI	SI	NO
Modello Model	Growatt SPA 1000TL BL	Growatt SPA 2000TL BL	Growatt SPA 3000TL BL
Versione FW Software release	RH1.0 e Superiori		
Numero di Fasi	1 (Monofase)		
Potenza Nominale Power Rating	1000 W	2000 W	3000 W
Psn (potenza di Scarica Nominale)	1000 W	2000 W	3000 W
Pcn (potenza di Carica Nominale)	1000 W	2000 W	3000 W
Psmax (potenza di Scarica Massima)	1000 W	2000 W	3000 W
Pcmax (potenza di Carica Massima)	1000 W	2000 W	3000 W
Tipologia	Bidirezionale		
Gli inverter suddetti possono essere installati con le seguenti batterie:			
The inverters here above listed may be installed with the following batteries:			
Costruttore Batterie Battery Manufacturer	Growatt	Pylontech	Growatt
Modello batterie Battery model	GBLI6531/ GBLI6532	US2000/US2000 PLUS	ARK 2.5L-A1
Tecnologia (Technology)	Elettrochimica		
Capacità Nominale del modulo batteria (kWh): Nominal Capacity of each battery module (kWh):	6,5	2,4	2,56
Numero(i) di modulo batteria raccomandato dal produttore Number(s) of battery modules recommended by the manufacturer	1-2	1-8	1-10
CUS (Capacità utile del Sistema di accumulo) CUS (Useful capacity of storage system)	6 - 12 kWh	2,2 -17,6 kWh	2,3 – 23 kWh
Versione Firmware del BMS BMS Firmware Version	R1.1 Growatt	V2.0	AQ01
NOTA	Il dispositivo è in grado di limitare la I _{dc} allo 0,5% della corrente nominale		

2. Riferimenti dei laboratori che hanno eseguito le prove e dei relativi fascicoli di prova:

Fascicoli di prova n. Test report number	190612126GZU-001 and Revision 1: 07 January 2021
(Issued by) Emessi da	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Accreditamento Accreditation	CNAS L0220

3. Dichiarazione di conformità alle prescrizioni CEI0-21:2019-04

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 Liangcai Wu residente in Bao'an, nel comune di Guangdong provincia di Shenzhen (Cina), in qualità di delegato del rappresentante legale della società **Shenzhen Growatt New Energy technology Co., LTD** con sede legale in 2F and 3F Building 4, Jiayu Company Industrial Park, Xibianling, Shangyu Village, Shiyan Street, Bao'an District, Shenzhen, China, P.IVA 440300570039265, iscritta al registro delle imprese della pretura di Shenzhen (Cina), con Numero di registrazione 440306105229852

DICHIARA

che gli inverter Ibridi di propria costruzione di cui al precedente punto 1, sono conformi alle prescrizioni della norma **CEI 0-21: 2019-04**

Si attesta inoltre che la produzione delle apparecchiature oggetto di questa dichiarazione avviene in regime di qualità secondo ISO 9001:2015 (UCS –Universal Certification Service Co., Ltd., certificato N° UKQ1809003R2 del 03/09/2021)

Shenzhen Growatt New Energy technology Co., LTD (*)
Shenzhen, P.R. China , lì 16/01/2021

Firma del dichiarante.
Liangcai Wu & Vice President



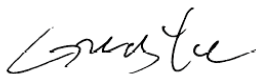
Certificate of Conformity

Certificate Number: CN-PV-210013

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specification/standard at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant Name & Address:	Shenzhen Growatt New Energy Co., Ltd 2F and 3F, Building 4, Jiayu Company Industrial Park, Xibianling, Shangyu Village, Shiyan Street, Bao'an District, Shenzhen, China
Product Description:	Accumulation system
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Models/Type References:	Inverter conversion device: SPA 1000TL BL, SPA 2000TL BL, SPA 3000TL BL Batteries and BMS - Battery Management System 1 and 2 Battery model: US2000 / US2000 Plus and GBLI6531/GBLI6532 Control model: 2P16S Batteries and BMS - Battery Management System 3 Battery model: ARK 2.5L-A1
Brand Name:	Growatt
Tested according to:	CEI 0-21:2019-04: Reference technical rules for the connection of active and passive users to the LV electrical Utilities
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by China National Accreditation Service for Conformity Assessment (CNAS C058-P) in accordance with ISO/IEC 17065:2012
Test Report Number:	190612126GZU-001 and Revision 1: 07 Jan 2021

Certification procedure: SMS-PV-OP-19
Product certification scheme type: Type test
Additional information in Appendix



Signature

Certification Manager: Grady Ye
Date: 15 January 2021



中国认可
产品
PRODUCT
CNAS C058-P

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210013

Model/Type reference	Inverter conversion device: SPA 1000TL BL, SPA 2000TL BL, SPA 3000TL BL Brand: Growatt Batteries and BMS - Battery Management System 1 Battery model: US2000 / US2000 Plus Control model: 1P16S Brand: PYLONTECH Batteries and BMS - Battery Management System 2 Battery model: GBLI6531/GBLI6532 Control model: 2P16S Brand: Growatt Batteries and BMS - Battery Management System 3 Battery model: ARK 2.5L-A1 Control model: -- Brand: Growatt
Inverter Firmware Version	RH1.0
Number of phases	Single-phase
Nominal Power	See below ratings
Type	Bidirectional
CUS (useful capacity of the storage system)	See following
Psn (nominal discharge power)	1000W (SPA 1000TL BL), 2000W (SPA 2000TL BL) 3000W (SPA 3000TL BL)
Pcn (nominal charge power)	Same as above
Psmax (maximum discharge power) :	Same as above
Pcmax (maximum charge power)	Same as above
BMS Firmware Version for system 1 :	V2.0
BMS Firmware Version for system 2 :	R1.1 Growatt
BMS Firmware Version for system 3 :	AQ01

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210013

Battery		CUS (useful capacity of the storage system)	
Model	Manufacturer	Capacity of per battery module (kWh)	Number of Max modules recommended by the manufacturer
US2000 / US2000 Plus	Shanghai PYLONTECH	2.2	8
GBLI6531/GBLI6532	NVT	6.0	2
ARK 2.5L-A1	Growatt	2.3	10

Note: batteries are not integrated within the inverter, and shall be installed according to local regulation.



APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210013

Ratings & Principle Characteristics:

Model	SPA 1000TL BL	SPA 2000TL BL	SPA 3000TL BL
AC output/input data			
Nominal Power	1000W	2000W	3000W
Max. Apparent Power	1000VA	2000VA	3000VA
Nominal Voltage	230Vac		
Max. Current	6A	10A	16A
Nominal Frequency	50/60Hz		
Power factor range	0.8Leading ~ 0.8Lagging		
Stand alone data			
Nominal AC output power	1000W	2000W	3000W
Nominal AC output voltage	230Vac		
Nominal AC output Frequency	50/60Hz		
Battery data			
Battery voltage range	42-59V		
Max.charging and discharging current	24A	44A	66A
Type of battery	Lithium / Lead-acid		
Others			
Safety level	Class I		
Ingress Protection	IP 65		
Operation Ambient Temperature	-25°C - 60°C		
Software version	RH1.0		

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Verification of certificate with test report: 190612126GZU-001 and Revision 1: 07 Jan 2021

TYPE OF APPARATUS:

(the static converters in systems with capacity up to 11.08 kW)

DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR CONVERSION	ROTATING GENERATOR DEVICE
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Manufacturer: Shenzhen Growatt New Energy Co., Ltd

Apparatus type: Accumulation system

Model: Inverter conversion device:

SPA 1000TL BL, SPA 2000TL BL, SPA 3000TL BL

Brands: Growatt

Batteries and BMS - Battery Management System 1

Battery model: US2000 / US2000 Plus

Control model: 1P16S

Brands: Pylontech

Batteries and BMS - Battery Management System 2

Battery model: GBLI6531/GBLI6532

Control model: 2P16S

Brands: Growatt

Batteries and BMS - Battery Management System 3

Battery model: ARK 2.5L-A1

Control model: --

Brands: Growatt

Inverter Firmware Version: RH1.0

BMS Firmware Version for system 1: V2.0; BMS Firmware Version for system 2: R1.1 Growatt

BMS Firmware Version for system 3: AQ01

Number of phases: Single-phase

Nominal power: See certificate for each model

Type: Bidirectional

CUS (useful capacity of the storage system): See certificate

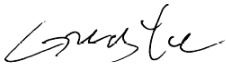
Remark: The devices are capable to limit I_{dc} to 0.5% of the rated grid current

Verification of certificate with test report: 190612126GZU-001 and Revision 1: 07 Jan 2021

Having assessed the test report 190612126GZU-001 and Revision 1 Issued by laboratory:
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science
City, GETDD, Guangzhou, Guangdong, China
In compliant with ISO/IEC 17025:2017
Accreditation number: CNAS L0220

Having examined the ISO 9001 certificate of the manufacturer No: UKQ1809003R2 issued by:
UNIVERSAL CERTIFICATION CENTRE CO., LTD

The indicated products above are complied with CEI 0-21:2019-04: Reference technical rules for the
connection of active and passive users to the LV electrical Utilities



Signature

Name: Grady Ye

Date: 15 January 2021

