Test Verification of Conformity

Verification Number: 190719102GZU-VOC001

On the basis of the referenced test reports, samples tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test reports and should be read in conjunction with them.

Once compliance with all product relevant CE mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested samples.

Applicant Name & Address:	SHENZHEN GROWATT NEW ENERGY TECHNOLOGY CO., LTD 1st East & 3rd Floor of Building A, Building B, Jiayu Industrial Park, #28, GuangHui Road, LongTeng Community, Shiyan Street, Baoan District, Shenzhen, P.R.China
Product Description:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	SPH3000TL BL-UP, SPH3600TL BL-UP, SPH4000TL BL-UP SPH4600TL BL-UP, SPH5000TL BL-UP, SPH6000TL BL-UP
Brand Name:	Growatt (logo)
Standard(s)/Directives:	EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters EN 62040-1: Uninterruptible power systems (UPS) – Part 1: General and safety requirements for UPS Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
Test Report Numbers:	190719102GZU-002, 190719102GZU-003, 190719102GZU-004

Additional information in Appendix

Signature

Name: Tommy Zhong
Position: Technical Manager
Date: 24 October 2019

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 190719102GZU-VOC001

Ratings & Principle Characteristics:

Model	SPH3000TL BL-UP	SPH3600TL BL-UP	SPH4000TL BL-UP
PV Input data			
Max. PV Input Voltage	550V		
Max. PV current	2*12 d.c.A		
Max. PV Isc	2*15 d.c.A		
AC output/Input data			
Nominal input / output power	3000/3000W	3680/3680W	4000/4000W
Max. Output apparent power	3000VA	3680VA	4000VA
Nominal voltage	230 a.c.V		
Max. input/output current	16/16 a.c.A		22/22 a.c.A
Nominal Frequency	50Hz		
Power Factor range	0.8 Leading ~ 0.8 Lagging		
UPS output data			
Max. output power	3000VA	3680VA	4000VA
Nominal AC output voltage	230 a.c.A		
Nominal AC Frequency	50Hz		
Battery data			
Battery voltage range	42 – 59 d.c.V		
Max. charging and discharging current	75 d.c.A		
Type of battery	Lithium/Lead-acid		
Ingress Protection	IP65		
Protective Class	Class I		
Operating temperature range	-25℃ - +60℃		
FW Version	RA1.0		

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 190719102GZU-VOC001

Ratings & Principle Characteristics:

Model	SPH4600TL BL-UP	SPH5000TL BL-UP	SPH6000TL BL-UP
PV Input data			
Max. PV Input Voltage	550V		
Max. PV current	2*12 d.c.A		
Max. PV Isc	2*15 d.c.A		
AC output/Input data			
Nominal input / output power	4600/4600W	5000/5000W	6000/6000W
Max. Output apparent power	4600VA	5000VA	6000VA
Nominal voltage	230 a.c.V		
Max. input/output current	22/22 a.c.A		27/27 a.c.A
Nominal Frequency	50Hz		
Power Factor range	0.8 Leading ~ 0.8 Lagging		
UPS output data			
Max. output power	4600VA	5000VA	6000VA
Nominal AC output voltage	230 a.c.A		
Nominal AC Frequency	50Hz		
Battery data			
Battery voltage range	42 – 59 d.c.V		
Max. charging and discharging current	75 d.c.A		
Type of battery	Lithium/Lead-acid		
Ingress Protection	IP65		
Protective Class	Class I		
Operating temperature range	-25℃ - +60℃		
FW Version	RA1.0		