

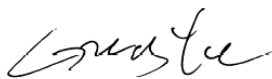
Certificate of Conformity

Certificate Number: CN-PV-190037

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specifications /standards 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 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:	Hybrid Inverter
Ratings & Principle Characteristics:	See Annex to Certificate 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
Specification/Standard:	NRS 097-2-1:2017 GRID INTERCONNECTION OF EMBEDDED GENERATION PART 2: SMALL-SCALE EMBEDDED GENERATION SECTION 1: UTILITY INTERFACE Type approval
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Report Number:	190719102GZU-001

Additional information in Appendix.



Signature

Name: Grady Ye

Position: Certifier

Date: 25 October 2019

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-190037.

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°C - +60°C		
FW Version	RA1.0		

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-190037.

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°C - +60°C		
FW Version	RA1.0		

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