

Certificate of Conformity

Certificate Number: CN-PV-200084

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:	Growatt SPH3000, Growatt SPH3600, Growatt SPH4000 Growatt SPH4600, Growatt SPH5000, Growatt SPH6000
Brand Name:	Growatt
Specification/Standard:	EN 50549-1: February 2019, Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including Type B Compliant with COMMISSION REGULATION (EU) 2016/631 (NC RfG) Type approval for type B
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:	200109130GZU-001, Revision 1: 14 Jul 2020

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 17 July 2020

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-200084

Ratings &
Principle
Characteristics:

Model	Growatt SPH3000	Growatt SPH3600	Growatt SPH4000
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	3000/3680W	3000/4000W
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	66 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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Ratings &
Principle
Characteristics:

Model	Growatt SPH4600	Growatt SPH5000	Growatt SPH6000
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	3000/4600W	3000/5000W	3000/6000W
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	66 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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