

## Certificate of Conformity

Certificate Number: CN-PV-200047

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:** 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: Hybrid inverter / AC Coupled inverter

Ratings & Principle Characteristics:

See Appendix to Certificate of Conformity

Models: SPH 4000TL3 BH, SPH 5000TL3 BH, SPH 6000TL3 BH, SPH 7000TL3 BH, SPH 8000TL3 BH, SPH 10000TL3 BH

SPA 4000TL3 BH, SPA 5000TL3 BH, SPA 6000TL3 BH, SPA 7000TL3 BH, SPA 8000TL3 BH, SPA 10000TL3 BH

Brand Name: Growatt

**Tested according to:** IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2014 Test procedure of islanding prevention measures for utility-

interconnected photovoltaic inverters

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 Reports No:** 

180820113GZU-001 180820113GZU-002

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Additional information in Appendix.

Signature

**Certification Manager: Grady Ye** 

Date: 1 June 2020



## **APPENDIX: Certificate of Conformity**

This is an Appendix to Certificate of Conformity Number: CN-PV-200047

Ratings & Principle Characteristics:

Model	SPH 4000 TL3   SPH 5000   SPH 6000 TL3   SPH 7000 TL3   SPH 8000 TL3   SPI								
iviodei	ВН	TL3 BH	ВН	ВН	ВН	TL3 BH			
Input data(DC)									
Max. recommended PV	5200W	6500W	7800W	9100W	10400W	13000W			
power (for module STC)		0							
Max. DC voltage	1000V	1000V	1000V	1000V	1000V	1000V			
Start voltage	120V	120V	120V	120V	120V	120V			
Nominal voltage	600V	600V	600V	600V	600V	600V			
MPP voltage range	120~1000V	120~1000V	120~1000V	120~1000V	120~1000V	120~1000V			
No. of MPP trackers	2	2	2	2	2	2			
No. of PV strings per MPP trackers	1	1	1	1	1	1			
Max. input current per MPP	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A			
trackers  Max. short- circuit current per  MPP trackers	15A/15A	15A/15A	15A/15A	15A/15A	15A/15A	15A/15A			
Output / Input o	lata(AC)		111						
AC nominal power	4000W	5000W	6000W	7000W	8000W	10000W			
Max. AC apparent power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA			
Nominal AC voltage	3W+N+PE , 230V/400V;								
AC grid frequency	50/60Hz;								
Max. output current	6.1A	7.6A	9.1A	10.6A	12.1A	15.2A			
Power factor	0.8leading ~ 0.8lagging								



## **APPENDIX: Certificate of Conformity**

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Ratings & Principle Characteristics:

Stand alone(AC p	ower)								
AC nominal output power	4000W	5000W	6000W	7000W	8000W	10000W			
Max. AC apparent power	4000VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA			
Nominal AC voltage	3W+N+PE , 230V/400V;								
Nominal AC frequency	50/60Hz								
Max. output current	6.1A 7.6A		9.1A 10.6A		12.1A	15.2A			
Battery data ( D	<b>c</b> )								
Battery voltage range	100~550V								
Max. charging / discharging current	25A								
Continuous charging / discharging power	4000W	5000W	6000W	7000W	8000W	10000W			
Type of battery	lithium battery / Lead-acid battery								
Capacity of battery	5~50kWh								
Others									
Technology	hnology Transformerless								
Protection degree	IP 65								
Operating temperature range	$-25^{\circ}\text{C} \simeq +60^{\circ}\text{C}$ With derating above 45 $^{\circ}\text{C}$								
Pollution degree	III								
Protective Class	Class I								
Software Version	YA1.0								



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Ratings & Principle Characteristics:

Model	SPA 4000 TL3 BH	SPA 5000 TL3 BH	SPA 6000 TL3 BH	SPA 7000 TL3 BH	SPA 8000 TL3 BH	SPA 10000 TL3 BH		
Output / Input data(AC)			l	l		I.		
AC nominal power	4000W	5000W	6000W	7000W	8000W	10000W		
Max. AC apparent power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA		
Nominal AC voltage	3W+N+PE , 230V/400V;							
AC grid frequency	50/60Hz							
Max. output current	6.1A	7.6A	9.1A	10.6A	12.1A	15.2A		
Power factor	0.8leading ~ 0.8lagging							
Stand alone(AC power)			1					
AC nominal output power	4000W	5000W	6000W	7000W	8000W	10000W		
Max. AC apparent power	4000VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA		
Nominal AC voltage	3W+N+PE , 230V/400V;							
Nominal AC frequency	50/60Hz							
Max. output current	6.1A	7.6A	9.1A	10.6A	12.1A	15.2A		
Battery data ( DC )					//			
Battery voltage range			100~	550V				
Max. charging / discharging current			25	5A				
Type of battery	lithium battery / Lead-acid battery							
Capacity of battery		. 7	5~50	)kWh				
Others		0 9						
Technology Transform		rmerless						
Protection degree			IP	65				
Operating temperature range		,		~ +60 °C g above 45 °C				
Pollution degree			Ī	II				
Protective Class	Class I							
Software Version			YH	1.0				