

Certificate of Conformity

Certificate Number: CN-PV-210124

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 Co., Ltd.

2F and 3F, Building 4, Jiayu Company Industrial Park, Xibianling, Shangyu

Village, Shiyan Street, Bao'an District, Shenzhen, China

Product: Hybrid inverter / AC Coupled inverter

Ratings & Principle Characteristics:

See Appendix to Certificate of Conformity

Models: SPH 4000TL3 BH-UP, SPH 5000TL3 BH-UP, SPH 6000TL3 BH-UP, SPH 7000TL3 BH-UP, SPH 10000TL3 BH-UP

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

Brand Name: GROWATT

Tested according to: DIN V VDE V 0126-1-1:2013.08

Certificate Issuing Intertek Testing Services Ltd. Shanghai

Office Name & Address: West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade

Zone, Shanghai, P. R. China

Test Reports No: 210121014GZU-001

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Additional information in Appendix.

Signature

Certification Manager: Grady Ye

Date: 01 June 2021



APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210124

Model	SPH 4000 TL3 BH-UP	SPH 5000 TL3 BH-UP	SPH 6000 TL3 BH-UP	SPH 7000 TL3 BH-UP	SPH 8000 TL3 BH-UP	SPH 10000 TL3 BH-UP		
Input data(DC)								
Max. recommended PV	6000W	7500W	9000W	10500W	12000W	15000W		
power (for module STC)		-0	0 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 trackers	13.5/13.5A	13.5/13.5A	13.5/13.5A	13.5/13.5A	13.5/13.5A	13.5/13.5A		
Max. short- circuit current per MPP trackers	16.9A/16.9A	16.9A/16.9A	16.9A/16.9A	16.9A/16.9A	16.9A/16.9A	16.9A/16.9A		
Output / Input data(AC)								
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 Hz;							
Max. output current	6.1A	7.6A	9.1A	10.6A	12.1A	15.2A		
Power factor	0.8leading ~ 0.8lagging							



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Stand alone(AC	oower)								
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	25A								
Continuous charging / discharging power	4000W	5000W	6000W	7000W	8000W	10000W			
Type of battery	lithium battery / Lead-acid battery								
Capacity of battery	7.68~76.8kWh								
Others					_ 1	7			
Technology	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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Model	SPA 4000 TL3 BH-UP	SPA 5000 TL3 BH-UP	SPA 6000 TL3 BH-UP	SPA 7000 TL3 BH-UP	SPA 8000 TL3 BH-UP	SPA 10000 TL3 BH-UP	
Output / Input data(AC)		TL3 BH-OF					
Output / Input data(AC) 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	50Hz;						
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)	$\sim M$			1	9		
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)						7	
Battery voltage range	100~550V						
Max. charging / discharging current	25A						
Type of battery	lithium battery / Lead-acid battery						
Capacity of battery	7.68~76.8kWh						
Others		-	(0.5				
Technology	Transformerless						
Protection degree	IP 65						
Operating temperature range	$-25^{\circ}\text{C}^{\sim}$ +60 $^{\circ}\text{C}$ With derating above 45 $^{\circ}\text{C}$						
Pollution degree	III						
Protective Class	Class I						
Software Version	YA1.0						