

Certificate of Conformity

Certificate Number: CN-PV-210131

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 8000TL3 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: C10/11: ed.2.1, 01 Sep 2019

SPECIFIC TECHNICAL PRESCRIPTIONS REGARDING POWER-GENERATING PLANTS

OPERATING IN PARALLEL TO THE DISTRIBUTION NETWORK

Type approved for type A

Certificate Issuing
Office Name & Address:

Intertek Testing Services Ltd. Shanghai

West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade

Zone, Shanghai, P. R. China

Test Reports No: 210121007GZU-008

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Additional information in Appendix.

Signature

Certification Manager: Grady Ye

Date: 03 June 2021



APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210131

Model	SPH 4000 TL3	SPH 5000 TL3	SPH 6000 TL3	SPH 7000 TL3	SPH 8000 TL3	SPH 10000 TL3		
	BH-UP	BH-UP	BH-UP	BH-UP	BH-UP	BH-UP		
Input data(DC)	T		Г		г			
Max. recommended PV	6000W	7500W	9000W	10500W	12000W	15000W		
power (for module STC)			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	1	1	1	1	1	1		
trackers	41							
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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4000W	5000W	6000W	7000W	8000W	10000W				
4000VA	5000 VA	6000 VA	7000 VA	8000 VA	10000 VA				
3W+N+PE , 230V/400V;									
50/60Hz									
6.1A	7.6A	9.1A	10.6A	12.1A	15.2A				
100~550V									
25A									
4000W	5000W	6000W	7000W	8000W	10000W				
lithium battery / Lead-acid battery									
7.68~76.8kWh									
M				_ //					
Transformerless									
IP 65									
$-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$ With derating above 45 $^{\circ}\text{C}$									
Class I									
YA1.0									
	4000VA 6.1A	4000W 5000W 4000VA 5000 VA 6.1A 7.6A 4000W 5000W	4000W 5000W 6000W 4000VA 5000 VA 6000 VA 3W+N+PE, 50/ 6.1A 7.6A 9.1A 100° 2 4000W 5000W 6000W lithium battery / 7.68~7 Transfo	4000W 5000W 6000W 7000W 4000VA 5000 VA 6000 VA 7000 VA 3W+N+PE , 230V/400V; 50/60Hz 6.1A 7.6A 9.1A 10.6A 100~550V 25A 4000W 5000W 6000W 7000W lithium battery / Lead-acid batter 7.68~76.8kWh Transformerless IP 65 -25 °C ~ +60 °C With derating above 45 °C III Class I	4000W 5000W 6000W 7000W 8000W 4000VA 5000 VA 6000 VA 7000 VA 8000 VA 3W+N+PE, 230V/400V; 50/60Hz 6.1A 7.6A 9.1A 10.6A 12.1A 100~550V 25A 4000W 5000W 6000W 7000W 8000W lithium battery / Lead-acid battery 7.68~76.8kWh Transformerless IP 65 -25 °C ~ +60 °C With derating above 45 °C III Class I				



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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)		l			ı			
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)					1/1			
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	25A							
Type of battery	lithium battery / Lead-acid battery							
Capacity of battery	7.68~76.8kWh							
Others								
Technology	Transformerless							
Protection degree	IP 65							
Operating temperature range	-25 °C $^{\sim}$ +60 °C With derating above 45 °C							
Pollution degree	III							
Protective Class	Class I							
Software Version	YA1.0							