Certificate of Conformity

Certificate Number: CN-PVES-250176

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) 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 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China.
Manufacturer:	Shenzhen Growatt New Energy Co., Ltd 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China.
Factory:	Guangdong Growatt New Energy Co., Ltd. Growatt Industrial Park, No.17 Pingheng Road Pingtan Town, Huiyang District, Huizhou, Guangdong, China.
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	WIT 29.9K-XHU2, WIT 30K-XHU2, WIT 36K-XHU2, WIT 29.9K-XHU, WIT 30K-XHU, WIT 36K-XHU, WIT 40K-XHU, WIT 50K-XHU
Brand Name<s>:	GROWATT
Product Complies with:	Commission Regulation (EU) 2016/631 of 14 April 2016 (NC RfG) establishing a network code on the requirements for connecting generating units to the network (Journal of Laws UE L 112/1 of 27 April 2016); PSE:18 December 2018: General Application Requirements resulting from the Regulation of the EU Commission 2016/631 of April 14, 2016 establishing the network code on the requirements for connecting generating units to the grid - approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550. 2. 2018. ZJ of January 2, 2019; PTPiREE, 2021-04: Conditions and procedures for the use of certificates in the process of connecting power generation modules to power grids. Type approval for Type A and B PPMs Type 1a product certification scheme according to ISO/IEC 17067:2013 Certification procedure SMS-PV-OP-19
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 Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	250318095GZU-001, 16 Apr. 2025

Additional information in Appendix.

Signature

Certification Manager: Grady Ye

Issue Date: 17 April 2025

Valid Until: 16 April 2030

PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250176

Product Complies with:	EN 50549-1:2019 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

The following functionalities have been assessed based on the rules for the use of certificate for Power Park Modules (PPMs), as specified in chapter 7 and 9 of the PTPIREE 2021-04. The functions denoted “Not Applicable” in the table of chapter 7 has not been included.

Capability	NC RfG	PSE 2018-12	Type A	Type B	Assessment result
Frequency range	13.1(a)	13.1(a)(i)	x	x	Compliant
Rate of Change of Frequency (ROCOF) Withstand capability, df/dt	13.1(b)	13.1(b)	x	x	Compliant
Remote cessation of active power	13.6	13.6	x	x	Compliant
Remote control of active power	14.2	14.2(b)		x	Compliant
Limited Frequency Sensitive Mode – Over frequency (LFSM-O)	13.2	13.2(a).(b).(f)	x	x	Compliant
Capability to withstand voltage dips for connection below 110kV	14.3	14.3(a(i).(b)		x	Compliant
Fast fault current Injection, symmetric and asymmetric faults	20.2(b).(c)	20.2(b).(c)		x	Compliant
Active power recovery after fault clearance	20.3	20.3(a)		x	Compliant

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250176

Ratings & Principle Characteristics:

Model	WIT 29.9K-XHU	WIT 30K-XHU	WIT 36K-XHU	WIT 40K-XHU	WIT 50K-XHU
Max. PV voltage	1100 VDC				
PV voltage range	180 – 1000 VDC				
PV Isc	50 A*4				
Max. input current	40 A*4				
AC Data					
Nominal input power	59800 W	60000 W	72000 W	80000 W	100000 W
Nominal output power	29900 W	30000 W	36000 W	40000 W	50000 W
Max. input apparent power	59800 VA	66000 VA	79200 VA	88000 VA	110000 VA
Max. output apparent power	29900 VA	33000 VA	39600 VA	44000 VA	55000 VA
Nominal output voltage	230/400 VAC				
Max. input/output current	90.6/45.3 A	100/50 A	120/60 A	133.3/66.7 A	166.7/83.3 A
Nominal output frequency	50/60 Hz				
Power factor range	1 leading - 1 lagging				
Load Data					
Nominal output power	29900 W	30000 W	36000 W	40000 W	50000 W
Nominal output voltage	230/400 VAC				
Nominal output frequency	50/60 Hz				
Battery Dada					
Battery voltage range	200-900 VDC				
Max. charging and discharging current	55 A*3				
Type of battery	Lithium				
Safety level	Class I				
Ingress protection	IP66				
Operating ambient temperature	-30℃ - +60℃				
Software version	TO1.0				

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250176

Ratings & Principle Characteristics:

Model	WIT 29.9K-XHU2	WIT 30K-XHU2	WIT 36K-XHU2
Max. PV voltage	1100 VDC		
PV voltage range	180 – 1000 VDC		
PV Isc	50 A*3		
Max. input current	40 A*3		
AC Data			
Nominal input power	59800 W	60000 W	72000 W
Nominal output power	29900 W	30000 W	36000 W
Max. input apparent power	59800 VA	66000 VA	79200 VA
Max. output apparent power	29900 VA	33000 VA	39600 VA
Nominal output voltage	230/400 VAC		
Max. input/output current	90.6/45.3 A	100/50 A	120/60 A
Nominal output frequency	50/60 Hz		
Power factor range	1 leading - 1 lagging		
Load Data			
Nominal output power	29900 W	30000 W	36000 W
Nominal output voltage	230/400 VAC		
Nominal output frequency	50/60 Hz		
Battery Dada			
Battery voltage range	200-900 VDC		
Max. charging and discharging current	55 A*2		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30℃ - +60℃		
Software version	TO1.0		

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