Certificate of Conformity

Certificate Number: CN-PVES-250394

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
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	WIT 4K-XHU, WIT 5K-XHU, WIT 6K-XHU, WIT 8K-XHU WIT 10K-XHU, WIT 12K-XHU, WIT 15K-XHU, WIT 17K-XHU WIT 20K-XHU, WIT 25K-XHU, WIT 17K-HU, WIT 18K-HU WIT 20K-HU, WIT 22K-HU, WIT 25K-HU
Brand Name<s>:	GROWATT
Product Complies with:	EN 50549-1:2019 + A1:2023, 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 EN 50549-10:2022, Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units Type approval for type A and B
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>:	250724154GZU-001, 28 September 2025

According to Annex H of the standard EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided that all settings as provided by the DSO and the responsible party are complied with.
Additional information in Appendix.

Signature

Certification Manager: Grady Ye
Date: 29 September 2025

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250394

Model	WIT 4K-XHU	WIT 5K-XHU	WIT 6K-XHU	WIT 8K-XHU	WIT 10K-XHU
PV Data					
Max. PV voltage	1000 d.c.V				
PV voltage range	150-850 d.c.V				
Nominal input voltage	625 d.c.V				
PV Isc	50 d.c.A				
Max. input current	40 d.c.A				
Number of MPP trackers	2				
AC Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. input/output power	8/4kW	10/5 kW	12/6 kW	16/8 kW	20/10 kW
Max. input/output apparent power	8.8/4.4 kVA	11/5.5 kVA	13.2/6.6 kVA	17.6/8.8 kVA	22/11 kVA
Max. output current	6.7 a.c.A	8.3 a.c.A	10 a.c.A	13.3 a.c.A	16.7 a.c.A
Max. input current	13.3 a.c.A	16.7 a.c.A	20 a.c.A	26.7 a.c.A	33.3 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
Load Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. output power	4 kW	5 kW	6 kW	8 kW	10 kW
Max. output current	6.1 a.c.A	7.6 a.c.A	9.1 a.c.A	12.1 a.c.A	15.2 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
GEN/Smart Load Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. input/output power	8 kW	10 kW	16 kW	16 kW	20 kW
Max. input/output current	12.1 a.c.A	15.2 a.c.A	18.2 a.c.A	24.2 a.c.A	30.3 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
Battery Data					
Battery Type	Lithium-ion/VRLA				
Battery voltage range	120-800 d.c.V				
Max. charging and discharging current	55 d.c.A				
Other Data					
Safety level	Class I				
Ingress Protection	IP66				
Operation ambient temperature	-30°C ~ +60°C, (>45°C Derating)				
Software version	YF 1.0				

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Model	WIT 12K-XHU	WIT 15K-XHU	WIT 17K-XHU	WIT 20K-XHU	WIT 25K-XHU
PV Data					
Max. PV voltage	1000 d.c.V				
PV voltage range	150-850 d.c.V				
Nominal input voltage	625 d.c.V				
PV Isc	50 d.c.A				
Max. input current	40 d.c.A				
Number of MPP trackers	3		4		
AC Data					
Nominal voltage	3W/N/PE 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. input/output power	24/12 kW	30/15 kW	34/17 kW	40/20 kW	50/25 kW
Max. input/output apparent power	26.4/13.2kVA	33/16.5 kVA	37.4/18.7 kVA	44/22 kVA	55/27.5 kVA
Max. output current	20 a.c.A	25 a.c.A	28.3 a.c.A	33.3 a.c.A	41.7 a.c.A
Max. input current	40 a.c.A	50 a.c.A	56.7 a.c.A	66.7 a.c.A	83.3 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
Load Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. output power	12 kW	15 kW	17 kW	20 kW	25 kW
Max. output current	18.2 a.c.A	22.7 a.c.A	25.8 a.c.A	30.3 a.c.A	37.9 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
GEN/Smart Load Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. input/output power	24 kW	30 kW	34 kW	40 kW	50 kW
Max. input/output current	36.4 a.c.A	45.5 a.c.A	51.5 a.c.A	60.6 a.c.A	75.8 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
Battery Data					
Battery Type	Lithium-ion/VRLA				
Battery voltage range	120-800 d.c.V				
Max. charging and discharging current	55 d.c.A				
Other Data					
Safety level	Class I				
Ingress Protection	IP66				
Operation ambient temperature	-30°C ~ +60°C, (>45°C Derating)				
Software version	YF 1.0				

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Model	WIT 17K-HU	WIT 18K-HU	WIT 20K-HU	WIT 22K-HU	WIT 25K-HU
PV Data					
Max. PV voltage	1000 d.c.V				
PV voltage range	150-850 d.c.V				
Nominal input voltage	625 d.c.V				
PV Isc	50 d.c.A				
Max. input current	40 d.c.A				
Number of MPP trackers	4				
AC Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. input/output power	34/17 kW	36/18 kW	40/20 kW	44/22 kW	50/25 kW
Max. input/output apparent power	37.4/18.7 kVA	39.6/19.8 kVA	44/22 kVA	48.2/24.2 kVA	55/27.5 kVA
Max. output current	28.3 a.c.A	30 a.c.A	33.3 a.c.A	36.7 a.c.A	41.7 a.c.A
Max. input current	56.7 a.c.A	60 a.c.A	66.7 a.c.A	73.3 a.c.A	83.3 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
Load Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. output power	17 kW	18 kW	20 kW	22 kW	25 kW
Max. output current	25.8 a.c.A	27.3 a.c.A	30.3 a.c.A	33.3 a.c.A	37.9 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
GEN/Smart Load Data					
Nominal voltage	3W/N/PE, 220/380, 230/400, 240/415 a.c.V				
Nominal Frequency	50/60Hz				
Max. input/output power	34 kW	36 kW	40 kW	44 kW	50 kW
Max. input/output current	51.5 a.c.A	54.6 a.c.A	60.6 a.c.A	66.7 a.c.A	75.8 a.c.A
Power factor range	1.0 leading ~ 1.0 lagging				
Battery Data					
Battery Type	Lithium-ion/VRLA				
Battery voltage range	40-60 d.c.V				
Max. charging and discharging current	420 d.c.A				
Other Data					
Safety level	Class I				
Ingress Protection	IP66				
Operation ambient temperature	-30°C ~ +60°C, (>45°C Derating)				
Software version	YG 1.0				

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Interface protection settings according to EN 50549-1			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 <]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 >]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59>>]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 <]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 >]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage		50%-120% adjustable, 85%Un≤ U≤1.10Un default	
Starting to generate electrical power		47Hz – 52Hz adjustable, 49.5Hz≤ U≤50.1Hz default	
Reconnection settings for frequency		47Hz – 52Hz adjustable, 49.5Hz≤ U≤50.2Hz default	
Observation time		10s-60s adjustable, 60s default	
Active power increase gradient		6%-3000%/min adjustable, 10%/min default	
Permanent DC injection		0.5% of rated inverter output	
Loss of mains according t0 EN 62116		Within 2s	

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