

Certificate of Conformity

Certificate Number: CN-PVES-240080

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.
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	WIT 50K-H, WIT 63K-H, WIT 75K-H, WIT 100K-H WIT 50K-A, WIT 63K-A, WIT 75K-A, WIT 100K-A WIT 50K-HE, WIT 63K-HE, WIT 75K-HE, WIT 100K-HE WIT 50K-AE, WIT 63K-AE, WIT 75K-AE, WIT 100K-AE WIT 50K-HU, WIT 63K-HU, WIT 75K-HU, WIT 100K-HU WIT 50K-AU, WIT 63K-AU, WIT 75K-AU, WIT 100K-AU
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 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
Certificate Issuing Office Name & Address:	
Test Report No.(s):	220509125GZU-001, 05 Mar 2024

Additional information in Appendix.

Signature

Certification Manager: Grady Ye

Date: 12 Mar. 2024

Valid until: 11 Mar. 2029



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240080

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
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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 -Overfrequency (LFSM-O)	13.2	13.2(a), (b), (f)	x	x	Compliant
Capability to withstand voltage dips for connection below 110 kV	14.3	14.3(a)(i), (b)		x	Compliant
Fast fault current injection, symmetrical and asymmetrical 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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Ratings and basic properties:

Model	WIT 100K-H	WIT 100K-HE WIT 100K-HU	WIT 75K-H	WIT 75K-HE WIT 75K-HU	WIT 63K-H	WIT 63K-HE WIT 63K-HU	WIT 50K-H	WIT 50K-HE WIT 50K-HU
Input (PV)								
Recommended max. PV power	100kW	156kW	75kW	156kW	63kW	124.8kW	50kW	109.2kW
Max. input voltage	1100 VDC							
MPPT voltage range	180 - 800 VDC							
Start-up voltage	195 VDC							
Nominal DC input voltage	550 VDC							
Max. input current per MPPT	32A							
Max. short-circuit current	40A							
Number of MPP trackers	10			8			7	
Max. input number per MPP tracker	2							
Input (DC Battery)								
Operating voltage range	600 -1000 VDC							
Battery maximum continuous current	167A	125A			105A		83.3A	
Output (On Grid)								
Rated output power	100kW	100kW	75kW	75kW	63kW	63kW	50kW	50kW
Max. apparent power	110 kVA	110 kVA	82.5 kVA	82.5 kVA	69.3 kVA	69.3 kVA	55 kVA	55 kVA
Max. output current	166.7A	166.7A	125A	125A	105A	105A	83.3A	83.3A
Rated output voltage	3W/N/PE 400/230 VAC							
Rated AC grid frequency	50Hz							
Adjustable power factor	1.0 leading - 1.0 lagging							
General Data								
Operating temperature range	-30 °C - 60 °C							
Degree of protection	IP66							
FW Version	TO1.0							

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Ratings and basic properties:

Model	WIT 100K-A	WIT 100K-AE WIT 100K-AU	WIT 75K-A	WIT 75K-AE WIT 75K-AU	WIT 63K-A	WIT 63K-AE WIT 63K-AU	WIT 50K-A	WIT 50K-AE WIT 50K-AU
Input (DC Battery)								
Operating voltage range	600 - 1000 Vd.c.							
Battery maximum continuous current	167A		125A		105A		83.3A	
Output (On Grid)								
Rated output power	100kW	100kW	75kW	75kW	63kW	63kW	50kW	50kW
Max. apparent power	110 kVA	110 kVA	82.5 kVA	82.5 kVA	69.3 kVA	69.3 kVA	55 kVA	55 kVA
Max. output current	166.7A	166.7A	125A	125A	105A	105A	83.3A	83.3A
Rated output voltage	3W/N/PE 400/230 VAC							
Rated AC grid frequency	50Hz							
Adjustable power factor	1.0 leading - 1.0 lagging							
General Data								
Operating temperature range	-30 °C - 60 °C							
Degree of protection	IP66							
FW Version	TO1.0							

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