

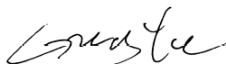
# Certificate of Conformity

Certificate Number: CN-PVES-240391

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.

<b>Applicant:</b>	Shenzhen Growatt New Energy Co., Ltd 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China
<b>Product:</b>	Hybrid Inverter
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	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
<b>Brand Name&lt;s&gt;:</b>	WIT 12K-XHU L2, WIT 15K-XHU L2, WIT 17K-XHU L2, WIT 20K-XHU L2, WIT 25K-XHU L2, WIT 30K-XHU L2 GROWATT
<b>Product Complies with:</b>	IEC/EN 62109-1:2010 (First Edition) Safety of Power Converter for use in Photovoltaic Power Systems Part 1: General requirements IEC/EN 62109-2:2011 Safety of Power Converter for use in Photovoltaic Power Systems Part 2: Particular requirements for inverters IEC 62477-1:2022, EN IEC 62477-1:2023/AC:2024-04 Safety requirements for power electronic converter systems and equipment Part 1: General
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> 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
<b>Test Report No.&lt;s&gt;:</b>	231108006GZU-001, 20 Aug 2024; 231108006GZU-002, 20 Aug 2024 231108006GZU-003, 20 Aug 2024

Additional information in Appendix.



Signature

**Certification Manager: Grady Ye**

**Date: 23 August 2024**



PRD N° 306B

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240391

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				
PV max. input current	40 A*4				
<b>AC input/output data</b>					
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 voltage	230/400 a.c. V				
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 frequency	50/60 Hz				
Power factor range	1 leading ~ 1 lagging				
<b>Load</b>					
Nominal AC output power	29900 W	30000 W	36000 W	40000 W	50000 W
Nominal AC output voltage	230/400 a.c. V				
Nominal AC output frequency	50/60 Hz				
<b>Battery data</b>					
Battery voltage range	200-900 Vd.c.				
Max. charging and discharging current	55 A*3				
Type of battery	Lithium				
Safety level	Class I				
Ingress protection	IP66				
Operating ambient temperature	-30°C - +60°C				
Software version	T01.0				

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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		
PV max. input current	40 A*3		
<b>AC input/output data</b>			
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 voltage	230/400 a.c. V		
Max. input/output current	90.6/45.3 A	100/50 A	120/60 A
Nominal frequency	50/60 Hz		
Power factor range	1 leading ~ 1 lagging		
<b>Load</b>			
Nominal AC output power	29900 W	30000 W	36000 W
Nominal AC output voltage	230/400 a.c. V		
Nominal AC output frequency	50/60 Hz		
<b>Battery data</b>			
Battery voltage range	200-900 Vd.c.		
Max. charging and discharging current	55 A*2		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		
Software version	T01.0		

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Model	WIT 12K-XHU L2	WIT 15K-XHU L2	WIT 17K-XHU L2
Max. PV voltage	550 VDC		
PV voltage range	160 – 500 VDC		
PV Isc	50 A*3		
PV max. input current	40 A*3		
<b>AC input/output data</b>			
Nominal input power	24000 W	30000 W	34000 W
Nominal output power	12000 W	15000 W	17000 W
Max. input apparent power	26400 VA	33000 VA	37400 VA
Max. output apparent power	13200 VA	16500 VA	18700 VA
Nominal voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Max. input/output current	69.3/34.6 A	86.6/43.3 A	98.2/49.1 A
Nominal frequency	50/60 Hz		
Power factor range	1 leading ~ 1 lagging		
<b>Load</b>			
Nominal AC output power	12000 W	15000 W	17000 W
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
<b>Generator Input</b>			
Nominal AC power	12000W	15000W	17000W
Max. current	31.5A	39.4A	44.6A
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
<b>Battery data</b>			
Battery voltage range	160-470 Vd.c.		
Max. charging and discharging current	55 A*2		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		
Software version	TO1.0		

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Model	WIT 20K-XHU L2	WIT 25K-XHU L2	WIT 30K-XHU L2
Max. PV voltage	550 VDC		
PV voltage range	160 – 500 VDC		
PV Isc	50 A*4		
PV max. input current	40 A*4		
<b>AC input/output data</b>			
Nominal input power	40000 W	50000 W	60000 W
Nominal output power	20000 W	25000 W	30000 W
Max. input apparent power	44000 VA	55000 VA	66000 VA
Max. output apparent power	22000 VA	27500 VA	33000 VA
Nominal voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Max. input/output current	115.5/57.7A	144.4/72.2 A	173.2/86.6 A
Nominal frequency	50/60 Hz		
Power factor range	1 leading ~ 1 lagging		
<b>Load</b>			
Nominal AC output power	20000 W	25000 W	30000 W
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
<b>Generator Input</b>			
Nominal AC power	20000W	25000W	30000W
Max. current	52.5A	65.6A	78.7A
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
<b>Battery data</b>			
Battery voltage range	160-470 Vd.c.		
Max. charging and discharging current	55 A*2		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		
Software version	TO1.0		

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