

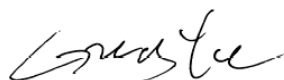
Certificate of Conformity

Certificate Number: CN-PVES-250327

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:	Energy Storage System
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	See appendix of Certificate of Conformity
Brand Name<s>:	GROWATT
Product Complies with:	CEI 0-21: 2022-03 + V1:2022-11 + V2:2024-01: Reference technical rules for the connection of active and passive users to the LV electrical Utilities
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd 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>:	250528104GZU-001, dated 18 Aug. 2025 Issued by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch accredited by IAS (TL-395) in accordance with ISO/IEC 17025:2017

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 21 Aug. 2025



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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250327

Test item description	Energy Storage System
Trade Mark	GROWATT
Manufacturer	Same as applicant
Model/Type reference	Inverter conversion device: WIT 29.9K-XHU, WIT 30K-XHU, WIT 36K-XHU, WIT 40K-XHU, WIT 50K-XHU, WIT 29.9K-XHU2, WIT 30K-XHU2, WIT 36K-XHU2 Brands: GROWATT Batteries and BMS - Battery Management System Energy Storage system: AXE 30.0H-1HC-E1, AXE 35.0H-1HC-E1, AXE 40.0H-1HC-E1, AXE 45.0H-1HC-E1, AXE 50.0H-1HC-E1, AXE 55.0H-1HC-E1, AXE 60.0H-1HC-E1, AXE 30.0H-1HR-E1, AXE 35.0H-1HR-E1, AXE 40.0H-1HR-E1, AXE 45.0H-1HR-E1, AXE 50.0H-1HR-E1, AXE 55.0H-1HR-E1, AXE 60.0H-1HR-E1, AXE 30.0H-2HC-S1, AXE 35.0H-2HC-S1, AXE 40.0H-2HC-S1, AXE 45.0H-2HC-S1, AXE 50.0H-2HC-S1, AXE 55.0H-2HC-S1, AXE 60.0H-2HC-S1 AXE 30.0H-2HR-S1, AXE 35.0H-2HR-S1, AXE 40.0H-2HR-S1, AXE 45.0H-2HR-S1, AXE 50.0H-2HR-S1, AXE 55.0H-2HR-S1, AXE 60.0H-2HR-S1, AXE 50.0H-1HT-S1, AXE 55.0H-1HT-S1, AXE 60.0H-1HT-S1, Battery pack: AXE 5.0H-E1 EU、AXE 5.0H-2H-B1 Battery type: LiFeSO4 High voltage control model: AXE1000100-C1 Brands: GROWATT
Inverter Firmware Version	YC1.0
Number of phases	Three-phase
Nominal Power	29900W (WIT 29.9K-XHU, WIT 29.9K-XHU2) 30000W (WIT 30K-XHU, WIT 30K-XHU2) 36000W (WIT 36K-XHU, WIT 36K-XHU2) 40000W (WIT 40K-XHU) 50000W (WIT 50K-XHU)
Type	Bidirectional
CUS (useful capacity of the storage system)	See following table for details
Psn (nominal discharge power)	See following table for details
Pcn (nominal charge power)	See following table for details
Psmx (maximum discharge power)	See following table for details
Pcmx (maximum charge power)	See following table for details
BMS Firmware Version for system	ZEHA_0001
BMS software Version	QBDA_0001

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APPENDIX: Certificate of Conformity

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Inverter	Energy Storage system	AXE 30.0H-1HC-E1*1 AXE 30.0H-1HR-E1*1 AXE 30.0H-2HC-S1*1 AXE 30.0H-2HR-S1*1	AXE 35.0H-1HC-E1*1 AXE 35.0H-1HR-E1*1 AXE 35.0H-2HC-S1*1 AXE 35.0H-2HR-S1*1	AXE 40.0H-1HC-E1*1 AXE 40.0H-1HR-E1*1 AXE 40.0H-2HC-S1*1 AXE 40.0H-2HR-S1*1	AXE 45.0H-1HC-E1*1 AXE 45.0H-1HR-E1*1 AXE 45.0H-2HC-S1*1 AXE 45.0H-2HR-S1*1
	Pcmax/Psmax(kW)				
WIT 29.9K-XHU WIT 29.9K-XHU2		29.9/29.9	29.9/29.9	29.9/29.9	29.9/29.9
WIT 30K-XHU WIT 30K-XHU2		30.0/30.0	30.0/30.0	30.0/30.0	30.0/30.0
WIT 36K-XHU WIT 36K-XHU2		30.0/30.0	35.0/35.0	36.0/36.0	36.0/36.0
WIT 40K-XHU		30.0/30.0	35.0/35.0	40.0/40.0	40.0/40.0
WIT 50K-XHU		30.0/30.0	35.0/35.0	40.0/40.0	45.0/45.0
Note: It could be limited by power of inverter, if the battery system used with inverter and has more power than inverter.					

Inverter	Energy Storage system	AXE 50.0H-1HC-E1*1 AXE 50.0H-1HR-E1*1 AXE 50.0H-2HC-S1*1 AXE 50.0H-2HR-S1*1 AXE 50.0H-1HT-S1*1	AXE 55.0H-1HC-E1*1 AXE 55.0H-1HR-E1*1 AXE 55.0H-2HC-S1*1 AXE 55.0H-2HR-S1*1 AXE 55.0H-1HT-S1*1	AXE 60.0H-1HC-E1*1 AXE 60.0H-1HR-E1*1 AXE 60.0H-2HC-S1*1 AXE 60.0H-2HR-S1*1 AXE 60.0H-1HT-S1*1
	Pcmax/Psmax(kW)			
WIT 29.9K-XHU WIT 29.9K-XHU2		29.9/29.9	29.9/29.9	29.9/29.9
WIT 30K-XHU WIT 30K-XHU2		30.0/30.0	30.0/30.0	30.0/30.0
WIT 36K-XHU WIT 36K-XHU2		36.0/36.0	36.0/36.0	36.0/36.0
WIT 40K-XHU		40.0/40.0	40.0/40.0	40.0/40.0
WIT 50K-XHU		50.0/50.0	50.0/50.0	50.0/50.0
Note: It could be limited by power of inverter, if the battery system used with inverter and has more power than inverter.				

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Energy Storage system Inverter	AXE 30.0H-1HC-E1*2 AXE 30.0H-1HR-E1*2 AXE 30.0H-2HC-S1*2 AXE 30.0H-2HR-S1*2	AXE 35.0H-1HC-E1*2 AXE 35.0H-1HR-E1*2 AXE 35.0H-2HC-S1*2 AXE 35.0H-2HR-S1*2	AXE 40.0H-1HC-E1*2 AXE 40.0H-1HR-E1*2 AXE 40.0H-2HC-S1*2 AXE 40.0H-2HR-S1*2	AXE 45.0H-1HC-E1*2 AXE 45.0H-1HR-E1*2 AXE 45.0H-2HC-S1*2 AXE 45.0H-2HR-S1*2
	Pcmax/Psmax(kW)			
WIT 29.9K-XHU WIT 29.9K-XHU2	29.9/29.9	29.9/29.9	29.9/29.9	29.9/29.9
WIT 30K-XHU WIT 30K-XHU2	30.0/30.0	30.0/30.0	30.0/30.0	30.0/30.0
WIT 36K-XHU WIT 36K-XHU2	36.0/36.0	36.0/36.0	36.0/36.0	36.0/36.0
WIT 40K-XHU	40.0/40.0	40.0/40.0	40.0/40.0	40.0/40.0
WIT 50K-XHU	50.0/50.0	50.0/50.0	50.0/50.0	50.0/50.0
Note: It could be limited by power of inverter, if the battery system used with inverter and has more power than inverter.				

Energy Storage system Inverter	AXE 50.0H-1HC-E1*2 AXE 50.0H-1HR-E1*2 AXE 50.0H-2HC-S1*2 AXE 50.0H-2HR-S1*2 AXE 50.0H-1HT-S1*2	AXE 55.0H-1HC-E1*2 AXE 55.0H-1HR-E1*2 AXE 55.0H-2HC-S1*2 AXE 55.0H-2HR-S1*2 AXE 55.0H-1HT-S1*2	AXE 60.0H-1HC-E1*2 AXE 60.0H-1HR-E1*2 AXE 60.0H-2HC-S1*2 AXE 60.0H-2HR-S1*2 AXE 60.0H-1HT-S1*2
	Pcmax/Psmax(kW)		
WIT 29.9K-XHU WIT 29.9K-XHU2	29.9/29.9	29.9/29.9	29.9/29.9
WIT 30K-XHU WIT 30K-XHU2	30.0/30.0	30.0/30.0	30.0/30.0
WIT 36K-XHU WIT 36K-XHU2	36.0/36.0	36.0/36.0	36.0/36.0
WIT 40K-XHU	40.0/40.0	40.0/40.0	40.0/40.0
WIT 50K-XHU	50.0/50.0	50.0/50.0	50.0/50.0
Note: It could be limited by power of inverter, if the battery system used with inverter and has more power than inverter.			

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Energy Storage system Inverter	AXE 30.0H-1HC-E1*3 AXE 30.0H-1HR-E1*3 AXE 30.0H-2HC-S1*3 AXE 30.0H-2HR-S1*3	AXE 35.0H-1HC-E1*3 AXE 35.0H-1HR-E1*3 AXE 35.0H-2HC-S1*3 AXE 35.0H-2HR-S1*3	AXE 40.0H-1HC-E1*3 AXE 40.0H-1HR-E1*3 AXE 40.0H-2HC-S1*3 AXE 40.0H-2HR-S1*3	AXE 45.0H-1HC-E1*3 AXE 45.0H-1HR-E1*3 AXE 45.0H-2HC-S1*3 AXE 45.0H-2HR-S1*3
	Pcmax/Psmax(kW)			
WIT 29.9K-XHU	29.9/29.9	29.9/29.9	29.9/29.9	29.9/29.9
WIT 30K-XHU	30.0/30.0	30.0/30.0	30.0/30.0	30.0/30.0
WIT 36K-XHU	36.0/36.0	36.0/36.0	36.0/36.0	36.0/36.0
WIT 40K-XHU	40.0/40.0	40.0/40.0	40.0/40.0	40.0/40.0
WIT 50K-XHU	50.0/50.0	50.0/50.0	50.0/50.0	50.0/50.0
Note: It could be limited by power of inverter, if the battery system used with inverter and has more power than inverter.				

Energy Storage system Inverter	AXE 50.0H-1HC-E1*3 AXE 50.0H-1HR-E1*3 AXE 50.0H-2HC-S1*3 AXE 50.0H-2HR-S1*3 AXE 50.0H-1HT-S1*3	AXE 55.0H-1HC-E1*3 AXE 55.0H-1HR-E1*3 AXE 55.0H-2HC-S1*3 AXE 55.0H-2HR-S1*3 AXE 55.0H-1HT-S1*3	AXE 60.0H-1HC-E1*3 AXE 60.0H-1HR-E1*3 AXE 60.0H-2HC-S1*3 AXE 60.0H-2HR-S1*3 AXE 60.0H-1HT-S1*3
	Pcmax/Psmax(kW)		
WIT 29.9K-XHU	29.9/29.9	29.9/29.9	29.9/29.9
WIT 30K-XHU	30.0/30.0	30.0/30.0	30.0/30.0
WIT 36K-XHU	36.0/36.0	36.0/36.0	36.0/36.0
WIT 40K-XHU	40.0/40.0	40.0/40.0	40.0/40.0
WIT 50K-XHU	50.0/50.0	50.0/50.0	50.0/50.0
Note: It could be limited by power of inverter, if the battery system used with inverter and has more power than inverter.			

Remark: Psn= Psmax, Pcn= Pcmax

APPENDIX: Certificate of Conformity

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Battery			CUS (useful capacity of the storage system)		
Energy Storage system	Battery pack* Number recommended by the manufacturer	Manufacturer	Capacity of per battery pack (kWh)	Capacity of energy Storage system (kWh)	Number of Max energy Storage system recommended by the manufacturer
AXE 30.0H-1HC-E1	AXE 5.0H-E1 EU*6	GROWATT	5	30~90	3
AXE 35.0H-1HC-E1	AXE 5.0H-E1 EU*7		5	35~105	3
AXE 40.0H-1HC-E1	AXE 5.0H-E1 EU*8		5	40~120	3
AXE 45.0H-1HC-E1	AXE 5.0H-E1 EU*9		5	45~135	3
AXE 50.0H-1HC-E1	AXE 5.0H-E1 EU*10		5	50~150	3
AXE 55.0H-1HC-E1	AXE 5.0H-E1 EU*11		5	55~165	3
AXE 60.0H-1HC-E1	AXE 5.0H-E1 EU*12		5	60~180	3
AXE 30.0H-1HR-E1	AXE 5.0H-E1 EU*6		5	30~90	3
AXE 35.0H-1HR-E1	AXE 5.0H-E1 EU*7		5	35~105	3
AXE 40.0H-1HR-E1	AXE 5.0H-E1 EU*8		5	40~120	3
AXE 45.0H-1HR-E1	AXE 5.0H-E1 EU*9		5	45~135	3
AXE 50.0H-1HR-E1	AXE 5.0H-E1 EU*10		5	50~150	3
AXE 55.0H-1HR-E1	AXE 5.0H-E1 EU*11		5	55~165	3
AXE 60.0H-1HR-E1	AXE 5.0H-E1 EU*12		5	60~180	3
AXE 30.0H-2HC-S1	AXE 5.0H-2H-B1*6		5	30~90	3
AXE 35.0H-2HC-S1	AXE 5.0H-2H-B1*7		5	35~105	3
AXE 40.0H-2HC-S1	AXE 5.0H-2H-B1*8		5	40~120	3
AXE 45.0H-2HC-S1	AXE 5.0H-2H-B1*9		5	45~135	3
AXE 50.0H-2HC-S1	AXE 5.0H-2H-B1*10		5	50~150	3
AXE 55.0H-2HC-S1	AXE 5.0H-2H-B1*11		5	55~165	3
AXE 60.0H-2HC-S1	AXE 5.0H-2H-B1*12		5	60~180	3
AXE 30.0H-2HR-S1	AXE 5.0H-2H-B1*6		5	30~90	3
AXE 35.0H-2HR-S1	AXE 5.0H-2H-B1*7		5	35~105	3
AXE 40.0H-2HR-S1	AXE 5.0H-2H-B1*8		5	40~120	3
AXE 45.0H-2HR-S1	AXE 5.0H-2H-B1*9		5	45~135	3
AXE 50.0H-2HR-S1	AXE 5.0H-2H-B1*10		5	50~150	3
AXE 55.0H-2HR-S1	AXE 5.0H-2H-B1*11		5	55~165	3
AXE 60.0H-2HR-S1	AXE 5.0H-2H-B1*12		5	60~180	3
AXE 50.0H-1HT-S1	AXE 5.0H-E1 EU*10		5	50~150	3
AXE 55.0H-1HT-S1	AXE 5.0H-E1 EU*11		5	55~165	3
AXE 60.0H-1HT-S1	AXE 5.0H-E1 EU*12		5	60~180	3

Note:

- Batteries are not integrated within the inverter and shall be installed according to local regulation.
- The model AXE60.0H-1HT-S1 is composed by AXE 5.0H-E1 EU*12+ AXE1000100-C1
- The WIT 29.9K-XHU, WIT 30K-XHU, WIT 36K-XHU, WIT 40K-XHU, and WIT 50K-XHU models are equipped with three independent battery inputs and can be connected to a maximum of three battery systems.
The WIT 29.9K-XHU2, WIT 30K-XHU2, and WIT 36K-XHU2 models are equipped with two independent battery inputs and can be connected to a maximum of two battery systems.
The possible combinations and recommended configurations are detailed in the table above.

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Model	WIT 29.9K-XHU	WIT 30K-XHU	WIT 36K-XHU	WIT 40K-XHU	WIT 50K-XHU
Input (PV)					
Max. input voltage	1100 VDC				
MPPT voltage range	180 – 1000 VDC				
Max. short-circuit current	50 A				
Max. input current per MPPT	40 A				
Output (On Grid)					
Rated output power	29900 W	30000 W	36000 W	40000 W	50000 W
Max. apparent power	29900 VA	33000 VA	39600 VA	44000 VA	55000 VA
Rated output voltage	230/400 V a.c.				
Max. output current	45.3 A	50 A	60 A	66.7 A	83.3 A
Rated AC grid frequency	50/60 Hz				
Adjustable power factor	1 leading ~ 1 lagging				
Backup parameter (AC)					
Rated output power	29900 W	30000 W	36000 W	40000 W	50000 W
Rated output voltage	230/400 V a.c.				
AC frequency	50/60 Hz				
Input (DC Battery)					
Operating voltage range	200-900 V d.c.				
Battery maximum continuous current	55 A*3				
General Data					
Safety level	Class I				
Degree of protection	IP66				
Operating temperature range	-30°C - +60°C				
FW Version	YC1.0				

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Model	WIT 29.9K-XHU2	WIT 30K-XHU2	WIT 36K-XHU2
Input (PV)			
Max. input voltage	1100 VDC		
MPPT voltage range	180 – 1000 VDC		
Max. short-circuit current	50 A		
Max. input current per MPPT	40 A		
Output (On Grid)			
Rated output power	29900 W	30000 W	36000 W
Max. apparent power	29900 VA	33000 VA	39600 VA
Rated output voltage	230/400 V a.c.		
Max. output current	45.3 A	50 A	60 A
Rated AC grid frequency	50/60 Hz		
Adjustable power factor	1 leading ~ 1 lagging		
Backup parameter (AC)			
Nominal output power	29900 W	30000 W	36000 W
Nominal output voltage	230/400 V a.c.		
Nominal output frequency	50/60 Hz		
Input (DC Battery)			
Operating voltage range	200-900 V d.c.		
Battery maximum continuous current	55 A*2		
General Data			
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		
FW Version	YC1.0		

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TYPE OF APPARATUS: Energy Storage System			
Number of phases: Three-phase			
DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR STATIC CONVERSION	ROTATING GENERATOR DEVICE
		☒	
The devices are capable to limit Idc to 0.5% of the rated grid current Having examined the ISO 9001 certificate of the manufacturer No.: 02421Q32012223R0M issued by: SHENZHEN Universal certification centre CO., LTD			

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