

Certificate of Conformity

Certificate Number: CN-PV-230216

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 manufacture(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant: Product: Ratings & Principle Characteristics:	Shenzhen Growatt New Energy Co., Ltd. 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China Hybrid Inverter See appendix of Certificate of Conformity
Model: Brand Name <s>:</s>	MID 11KTL3-XH, MID 12KTL3-XH, MID 13KTL3-XH, MID 15KTL3-XH, MID 17KTL3-XH, MID 20KTL3-XH, MID 25KTL3-XH, MID 30KTL3-XH MID 11KTL3-XA, MID 12KTL3-XA, MID 13KTL3-XA, MID 15KTL3-XA, MID 17KTL3-XA, MID 20KTL3-XA, MID 25KTL3-XA, MID 30KTL3-XA 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
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>:</s>	230315056GZU-001
Additional information in Appendix	۰ ۲

Signature

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Certification Manager: Grady Ye Date: 04 May 2023 Valid until: 03 May 2028



PRD Nº 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230216

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	Туре А	Туре В	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	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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Model	MID 11KTL3- XH/XA	MID 12KTL3 -XH/XA	MID 13KTL3- XH/XA	MID 15KTL3 -XH/XA	MID 17KTL3- XH/XA	MID 20KTL3- XH/XA	MID 25KTL3 -XH/XA	MID 30KTL3 -XH/XA		
PV data (NA for MID 11-30KT	L3-XA series)								
Max. DC voltage	1100Vdc									
MPP voltage range	160-1000Vdc									
Full Load MPP voltage range				335V-8	325Vdc					
No. of MPP trackers			2	/2			2/2	2/2		
Max. input current per MPP trackers [A]	32A/32A						32A/32A/32A			
Max. short-circuit current per MPP trackers [A]	40A/40A						40A/40A/40A			
DC data	10									
Max. DC Voltage	1100Vdc									
DC voltage range	600-980Vdc									
Max. DC current	25A*2									
Max.input/output power	30kW/ 11kW	30kW/ 12kW	30kW/ 13kW	30kW/ 15kW	30kW/ 17kW	30kW/ 20kW	30kW/ 25kW	30kW/ 30kW		
AC rated power [kW]	11	12	13	15	17	20	25	30		
Max. AC apparent power [kVA] for "-XH" series	12.1	13.2	14.3	16.5	18.7	22.0	27.5	30.0		
Max. AC apparent power [kVA] for "-XA" series	11	12	13	15	17	20	25	30		
Rated AC voltage	3W/N/PE, 230V/400V									
AC grid frequency	50Hz									
Max. output current [A] for "-XH" series	18.3	20.0	21.7	25.0	28.3	33.3	41.6	45.5		
Max. output current [A] for "-XA" series	16.7	18.2	19.7	22.7	25.8	30.3	37.9	45.5		
Adjustable power factor	0.8Leading0.8Lagging									
Operating temperature range	-25°C +60°C (>45°C Derating)									
Protection degree	IP66									
Software Version	DN1.0									

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