

## **Certificate of Conformity**

Certificate Number: CN-PV-230055

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:	Shenzhen Growatt New Energy Co., Ltd. 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China PV Grid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	MID 17KTL3-X2, MID 20KTL3-X2, MID 25KTL3-X2, MID 30KTL3-X2, MID 30KTL3-X2-1, MID 33KTL3-X2, MID 36KTL3-X2, MID 40KTL3-X2, MID 50KTL3-X2
Brand Name <s>:</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
Certificate Issuing Office	Intertek Testing Services Ltd. Shanghai
Name & Address:	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
Test Report No. <s>:</s>	220908145GZU-001
Additional information in Appendix	

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Signature

Certification Manager: Grady Ye Date: 23 February 2023

PRD Nº 306B

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.



## **APPENDIX: Certificate of Conformity**

This is an Appendix to Certificate of Conformity Number:CN-PV-230055.

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	х	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)		х	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	3 20.3(a)		x	Compliant	

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Model	MID 17KTL3- X2	MID 20KTL3- X2	MID 25KTL3- X2	MID 30KTL3- X2	MID 30KTL3- X2-1	MID 33KTL3- X2	MID 36KTL3- X2	MID 40KTL3- X2	MID 50KTL3- X2		
Max. DC voltage		1100Vdc									
MPP voltage range	200-1000Vdc										
Full Load MPP voltage range	420-850Vdc 480-			50Vdc	400-850Vdc			450-850Vdc			
No. of MPP trackers	2				3			4			
No. of PV strings per MPP trackers	2/2			2/3	2/2/2			2/2/2/2			
Max. input current per MPP trackers [A]	32,	/32	32/36	32/48	32/32/32		32/32/32/32				
Max. short-circuit current per MPP trackers [A]	40/40		40/45	40/60	40/40/40			40/40/40/40			
AC rated power [KW]	17	20	25	30	30	33	36	40	50		
Max. AC apparent power [KVA]	18.8	22.2	27.7	33.3	30.0	36.6	40.0	44.4	55.5		
Rated AC voltage	3W/N/PE, 230V/400V										
AC grid frequency	50/60Hz										
Rated AC output current [A]	24.6	29.0	36.2	43.5	43.5	47.8	52.2	58.0	72.5		
Max. output current [A]	28.6	33.6	42.0	50.5	45.5	55.5	60.6	67.3	84.1		
Adjustable power factor	0.8Leading0.8Lagging										
Operating temperature range	−25°C +60°C (>45°C Derating)										
Protection degree	IP66										
Software Version	DM1.0										

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