

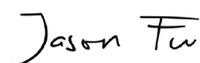
Test Verification of Conformity

Verification Number: 230315062GZU-VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the regulation(s) listed on this verification at the time the tests were carried out. Other standards and Regulations may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark regulations are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Shenzhen Growatt New Energy Co., Ltd. 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China
Product Description: Ratings & Principle Characteristics:	Hybrid Inverter/AC Coupled Inverter See appendix of Verification of Conformity
Models/Type References:	MID 11KTL3-XA, MID 12KTL3-XA, MID 13KTL3-XA, MID 15KTL3-XA, MID 17KTL3-XA, MID 20KTL3-XA, MID 25KTL3-XA, MID 30KTL3-XA, 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 8000TL3-XH L, MID 10KTL3-XH L, MID 12KTL3-XH L, MID 15KTL3-XH L
Brand Name: Relevant Standards/Regulations:	GROWATT 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 EN IEC 62477-1:2022, Safety requirements for power electronic converter systems and equipment Part 1: General Electrical Equipment (Safety) Regulations 2016
Verification 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
Date of Tests: Test Report Number(s):	29 March 2023 to 05 May 2023 230315062ZU-001, 230315062GZU-002, 230315062GZU-003
Additional information in Appendix.	



Signature

Name: Jason Fu

Position: Supervisor

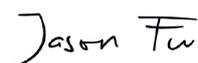
Date: 09 June 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230315062GZU -VOC001.

Model	MID 11KTL3-XH	MID 12KTL3-XH	MID 13KTL3-XH	MID 15KTL3-XH	MID 17KTL3-XH
Max.PV voltage	1100Vdc				
MPPT voltage	160-1000Vdc				
Max.input current	32/32A				
PV Isc	40/40A				
Nominal output voltage	3W/N/PE, 230/400 a.c.V				
Nominal output Frequency	50/60Hz				
Max.output current	18.3A	20A	21.7A	25A	28.3
Max. output power	11KW	12KW	13KW	15KW	17KW
Max. apparent power	12.1KVA	13.2KVA	14.3KVA	16.5KVA	18.7KVA
Power factor range	0.8Leading~0.8Lagging				
Safety level	Class I				
Ingress Protection	IP 66				
Operation Ambient Temperature	-25°C - +60°C				
Software version	DN1.0				



Signature

Name: Jason Fu

Position: Supervisor

Date: 09 June 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230315062GZU -VOC001.

Model	MID 20KTL3-XH	MID 8000TL3-XH L	MID 10KTL3-XH L	MID 12KTL3-XH L	MID 15KTL3- XH L
Max.PV voltage	1100Vdc				
MPPT voltage	160-1000Vdc	160-850Vdc			
Max.input current	32/32A	32/32/32A			
PV Isc	40/40A	40/40/40A			
Nominal output voltage	3W/N/PE, 230/400a.c.V	3W/PE, 133/230 a.c.V			
Nominal output Frequency	50/60Hz				
Max.output current	33.3A	21.0A	26.3A	31.5A	39.4A
Max. output power	20KW	8KW	10KW	12KW	15KW
Max. apparent power	22KVA	8KVA	10KVA	12KVA	15KVA
Power factor range	0.8Leading~0.8Lagging				
Safety level	Class I				
Ingress Protection	IP 66				
Operation Ambient Temperature	-25°C - +60°C				
Software version	DN1.0				

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Model	MID 25KTL3-XH	MID 30KTL3-XH
Max.PV voltage	1100Vdc	
MPPT voltage	160-1000Vdc	
Max.input current	32/32/32A	
PV Isc	40/40/40A	
Nominal output voltage	3W/N/PE, 230/400a.c.V	
Nominal output Frequency	50/60Hz	
Max.output current	41.6A	45.5A
Max. output power	25KW	30KW
Max. apparent power	27.5KVA	30KVA
Power factor range	0.8Leading~0.8Lagging	
Safety level	Class I	
Ingress Protection	IP 66	
Operation Ambient Temperature	-25°C - +60°C	
Software version	DN1.0	

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230315062GZU -VOC001.

Model	MID 11KTL3- XA	MID 12KTL3- XA	MID 13KTL3- XA	MID 15KTL3- XA	MID 17KTL3- XA
Battery voltage range	600V-980V				
Type of Battery	Lithium				
Max.input/output current	16.7/16.7a.c.A	18.2/18.2a.c.A	19.7/19.7a.c.A	22.7/22.7a.c.A	25.8/25.8a.c.A
Nominal output voltage	3W/N/PE, 230/400a.c.V				
Nominal output Frequency	50/60Hz				
Max.output current	16.7A	18.2A	19.7A	22.7A	25.8A
Max. output power	11KW	12KW	13KW	15KW	17KW
Power factor range	0.8Leading~0.8Lagging				
Safety level	Class I				
Ingress Protection	IP 66				
Operation Ambient Temperature	-25°C - +60°C				
Software version	DN1.0				

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230315062GZU -VOC001.

Model	MID 20KTL3-XA	MID 25KTL3-XA	MID 30KTL3-XA
Battery voltage range	600V-980V		
Type of Battery	Lithium		
Max.input/output current	30.3/30.3a.c.A	37.9/37.9a.c.A	45.5/45.5a.c.A
Nominal output voltage	3W/N/PE, 230/400a.c.V		
Nominal output Frequency	50/60Hz		
Max.output current	30.3A	37.9A	45.5A
Max. output power	20KW	25KW	30KW
Power factor range	0.8Leading~0.8Lagging		
Safety level	Class I		
Ingress Protection	IP 66		
Operation Ambient Temperature	-25°C - +60°C		
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