


Test Verification of Conformity

Verification Number: 190626014GZU-001

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 directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it.

Once compliance with all product relevant  mark directives 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 TECHNOLOGY CO., LTD 1st East & 3rd Floor of Building A, Building B, Jiayu Industrial Park, #28, GuangHui Road, LongTeng Community, Shiyan Street, Baoan District, Shenzhen, P.R.China
Product Description:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	MAC 40KTL3-X LV, MAC 50KTL3-X LV, MAC 60KTL3-X LV, MAC 50KTL3-X MV MAC 60KTL3-X MV, MAC 66KTL3-X MV, MAC 70KTL3-X MV
Brand Name(s):	
Standard(s)/Directive(s):	See Appendix: Test Verification of Conformity
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
Test Report Number(s):	190626014GZU-001, 190626014GZU-002

Additional information in Appendix



Signature

Name: Tommy Zhong
Position: Technical Manager
Date: 19 Aug 2019



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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 190626014GZU-001

Ratings & Principle Characteristics:

Model	MAC 50KTL3-X MV	MAC 60KTL3-X MV	MAC 66KTL3-X MV	MAC 70KTL3- X MV
Max.PV voltage	1100Vdc			
PV voltage range	200V – 1000Vdc			
Max.input current	50A/50A/37.5A			
PV Isc	55A*3			
Nominal output voltage	3W/PE, 277/480Vac			
Nominal output Frequency	50/60Hz			
Max.output current	66.9A	80.2A	88.2A	93.6A
Max.output power	50.0KW	60.0KW	66.0KW	70.0KW
Max.apparent power	55.5KVA	66.6KVA	73.3KVA	77.7KVA
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 65			
Operation Ambient Temperature	-25°C - +60°C			

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This is an Appendix to Test Verification of Conformity Number: 190626014GZU-001

Ratings & Principle Characteristics:

Model	MAC 40KTL3-X LV	MAC 50KTL3-X LV	MAC 60KTL3-X LV
Max.PV voltage	1100Vdc		
PV voltage range	200V – 1000Vdc		
Max.input current	50A/50A/37.5A		
PV Isc	55A*3		
Nominal output voltage	3W/N/PE 220/380Vac, 230/400Vac		
Nominal output Frequency	50/60Hz		
Max.output current	67.5A	84.4A	96.6A
Max.output power	40.0KW	50.0KW	60.0KW
Max.apparent power	44.4KVA	55.5KVA	66.6KVA
Power factor range	0.8Leading – 0.8 lagging		
Safety level	Class I		
Ingress Protection	IP 65		
Operation Ambient Temperature	-25°C - +60°C		
Software version	DSP: Tkaa1203 M3: ZBaa_11 M0: TKaa_M0_03		

Standard(s)/Directive(s):

IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements
IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters
Low Voltage Directive 2014/35/EU