

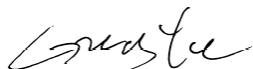
# Certificate of Conformity

Certificate Number: CN-PV-200122

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specifications/standards at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

<b>Applicant:</b>	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
<b>Product:</b>	PV Grid inverter
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	MAC 50KTL3-X LV, MAC 60KTL3-X LV, MAC 70KTL3-X MV
<b>Brand Name:</b>	Growatt
<b>Tested according to:</b>	IEC 60068-2-1:2007, Environmental testing – Part 2-1: Tests- Test A: Cold IEC 60068-2-2:2007, Environmental testing – Part 2-2: Tests- Test B: Dry heat IEC 60068-2-14:2009, Environmental testing – Part 2-14: Tests- Test N: Change of temperature IEC 60068-2-30:2005, Environmental testing – Part 2-30: Tests- Test Db: Damp heat, cyclic (12h +12h cycle) IEC 61683: 1999, Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
<b>Test Report No.:</b>	200630053GZU-001

Additional information in Appendix.



**Signature**

**Certification Manager: Grady Ye**

**Date: 08 September 2020**

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200122

Ratings & Principle Characteristics:

Model	MAC 50K TL3-X LV	MAC 60K TL3-X LV	MAC 70K TL3-X MV
Max.PV voltage	1100Vdc		
PV voltage range	200V – 1000Vdc		
Max.input current	52/39/39A	52A*3	52A*3
PV Isc	55A*3		
Nominal output voltage	3W/N/PE, 230/400Vac		3W/PE, 277/480Vac
Nominal output Frequency	50/60Hz		
Max.output current	80.5A	96.6A	93.6A
Max.output power	50.0KW	60.0KW	70.0KW
Max.apparent power	55.5KVA	66.6KVA	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		
Software version	TK1.0		

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