

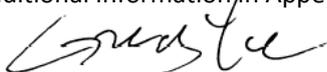
Certificate of Conformity

Certificate Number: CN-PV-200151

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

Applicant:	Shenzhen Growatt New Energy Technology Co., Ltd 1st East & 3rd Floor, Jiayu Industrial Zone,Xibianling, Shangwu Village, Shiyan,BAOAN DISTRICT Shenzhen,CHINA
Product:	Grid Support Hybrid inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	MIN 3000TL-XH-US,MIN 3000TL-XA-US, MIN 3800TL-XH-US, MIN 3800TL-XA-US, MIN 5000TL-XH-US, MIN 5000TL-XA-US, MIN 6000TL-XH-US, MIN 6000TL-XA- US,MIN 7600TL-XH-US, MIN 7600TL-XA-US
Brand Name<s>:	Growatt
Tested according to:	UL 1741:2020 Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources IEEE 1547:2018 IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces (Excluding interoperability, section 10) IEEE 1547.1:2020IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Energy Resources with Electric Power Systems and Associated Interfaces (Excluding interoperability test, section 6) HAWAIIAN ELECTRIC IEEE 1547.1-2020 Standard SRD 2.0:2020
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
Test Report No.<s>:	200427130GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 20 November 2020

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-200151

Ratings & Principle Characteristics:

Model	MIN 3000TL-XH-US MIN 3000TL-XA-US	MIN 3800TL-XH-US MIN 3800TL-XA-US	MIN 5000TL-XH-US MIN 5000TL-XA-US
Max input voltage (dc)	600V (excluding TL-XA-US series)		
Range of input operating voltage(dc)	50-600V(excluding TL-XA-US series)		
Max input current (dc)	13A per MPP tracker (excluding TL-XA-US series)		
Max input short circuit current	16A per MPP tracker (excluding TL-XA-US series)		
Max backfeed current	0A(excluding TL-XA-US series)		
Output power factor rating	0.8 Leading to 0.8 Lagging		
Nominal Voltage	240/208Vac, 240V split phase		
Normal output frequency	60Hz		
Max cont input/ output current (ac)	12.5A	16.0A	21.0A
Max cont input/output power	<u>3000W@240V</u>	<u>3800W@240V</u>	<u>5000W@240V</u>
Max.output apparent power	<u>3000VA@240V</u>	<u>3800VA@240V</u>	<u>5000VA@240V</u>
Max. output fault current and duration	62Apeak/2 μ s		
Max output overcurrent protection	20A	30A	
Battery data			

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-200151

Ratings & Principle Characteristics:

Charging output voltage operating range (dc)	360 - 550V		
Max.charging and discharging current(dc)	9/9A	11.5/11.5A	15/15A
Type of battery	Lithium / Lead-acid		
Stand alone data			
Max. AC apparent power	<u>3680VA@240V</u>	<u>4000VA@240V</u>	<u>5000VA@240V</u>
Nominal AC voltage	208Vac/240Vac		
Nominal AC frequency	60Hz		
UI trip limits and times	See following other rating (1)		
Synchronization in-rush current	0A		
Trip limit and trip time accuracy	Voltage:1%; Frequency:0.01Hz Time:1% of measured duration , but not less than 100ms Active power:± 5% Srated, Reactive power:± 5% Srated		
Normal operation temperature range	-25°C - +60°C		
Output pwr temp derate/ max pwr ambient	>45°C derating		
Enclosure type	Type 4X		
Software Version	UE1.0 (checksum:8CB43554CCBB5D85F0581EA268A5C28)		

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-200151

Ratings & Principle Characteristics
:

Model	MIN 6000TL-XH-US MIN 6000TL-XA-US	MIN 7600TL-XH-US MIN 7600TL-XA-US
Max input voltage (dc)	600(excluding TL-XA-US series)	
Range of input operating voltage(dc)	50-600V(excluding TL-XA-US series)	
Max input current (dc)	13A per MPP tracker (excluding TL-XA-US series)	
Max input short circuit current	16A per MPP tracker (excluding TL-XA-US series)	
Max backfeed current	0A(excluding TL-XA-US series)	
Output power factor rating	0.8 Leading to 0.8 Lagging	
Nominal Voltage	240/208Vac, 240V split phase	
Normal output frequency	60Hz	
Max cont input/output current (ac)	25A	32A
Max cont input/output power	<u>6000W@240V</u>	<u>7600W@240V</u>
Max.output apparent power	<u>6000VA@240V</u>	<u>7600VA@240V</u>
Max. output fault current and duration	75Apeak/2 μ s	
Max output overcurrent protection	40A	
Battery data		

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-200151

Ratings & Principle Characteristics
:

Charging output voltage operating range (dc)	360 - 550V
Max.charging and discharging current(dc)	15/15A
Type of battery	Lithium / Lead-acid
Stand alone data	
Max. AC apparent power	<u>6000VA@240V</u>
Nominal AC voltage	208Vac/240Vac
Nominal AC frequency	60Hz
UI trip limits and times	See following other rating (1)
Synchronization in-rush current	0A
Trip limit and trip time accuracy	Voltage:1%; Frequency:0.01Hz Time:1% of measured duration , but not less than 100ms Active power:± 5% Srated, Reactive power:± 5% Srated
Normal operation temperature range	-25°C - +60°C
Output pwr temp derate/ max pwr ambient	>45°C derating
Enclosure type	Type 4X
Software Version	UE1.0 (checksum:8CB43554CCBB5D85F0581EA268A5C28)

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.