

# **Test Verification of Conformity**

#### Verification Number: 220225027GZU- 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  $\square$  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: PV Grid inverter, Hybrid inverter & AC Coupled inverter

Ratings & Principle

Characteristics:

See Annex to Certificate of Conformity

Models/Type References: See APPENDIX

Brand Name: GROWATT

Relevant IEC/EN 62109-1:2010 (First Edition) Safety of Power Converter for use in

Standards/Regulations: 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

Electrical Equipment (Safety) Regulation 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

Date of Tests: 07 Jan 2021 - 20 Jan 2021 & 17 Dec 2021 – 06 Jan 2022

Test Report Number(s): 181016123GZU-003, Revision 2: 15 Apr 2021 181016123GZU-004, Revision 2: 15 Apr 2021

211217119GZU-001, 211217119GZU-002 210408161GZU-001, 210408161GZU-002

Additional information in Appendix.

Jason Tu

Signature

Name: Jason Fu Position: Supervisor Date: 21 March 2022



This is an Appendix to Test Verification of Conformity Number: 220225027GZU-VOC001.

Model	MIN 2500TL-XE	MIN 3000TL-XE	MIN 3600TL-XE	MIN 4200TL-XE	
	MIN 2500TL-XH	MIN 3000TL-XH	MIN 3600TL-XH	MIN 4200TL-XH	
Max.PV voltage	500 d.c.V		550 d.c.V		
PV voltage range	80-500 d.c.V (only for MIN 2500TL- XE, MIN 3000TL-XE)		80-550 d.c.V (only for MIN 3600TL-XE, MIN 4200TL-XE)		
	,	70-500 d.c.V (only for MIN 2500TL- XH, MIN 3000TL-XH)		70-550 d.c.V (only for MIN 3600TL-XH, MIN 4200TL-XH)	
PV Isc		16.9 d.c.A*2			
Max.input current	13.5 d.c.A*2				
Max. DC voltage	500 d.c.V (only for MIN 2500TL-XH, MIN 3000TL-XH)		550 d.c.V (only for MIN 3600TL-XH, MIN 4200TL-XH)		
DC voltage range	360-500 d.c.V (only for MIN 2500TL- XH, MIN 3000TL-XH)		360-550 d.c.V (only for MIN 3600TL- XH, MIN 4200TL-XH)		
Max. DC current	17 d.c.A (only for MIN 2500TL-XH, MIN 3000TL-XH, MIN 3600TL-XH, MIN 4200TL-XH)				
Max.output power	2500W	3000W	3600W	4200W	
Max.apparent power	2500VA	3000VA	3600VA	4200VA	
Nominal output voltage	230 a.c.V				
Max.output current	11.3 a.c.A	13.6 a.c.A	16 a.c.A	19 a.c.A	
Nominal output Frequency	50/60Hz				
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	AL 1.0				

Joson Tu

Signature

Name: Jason Fu Position: Supervisor Date: 21 March 2022



This is an Appendix to Test Verification of Conformity Number: 220225027GZU-VOC001.

Model	MIN 4600TL-XE	MIN 5000TL-XE	MIN 6000TL-XE
	MIN 4600TL-XH	MIN 5000TL-XH	MIN 6000TL-XH
Max.PV voltage	550 d.c.V		
PV voltage range	80-550 d.c.V (only for MIN 4600TL-XE, MIN 5000TL-XE, MIN 6000TL-XE) 70-550 d.c.V (only for MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH)		
PV Isc		16.9 d.c.A*2	
Max.input current	13.5 d.c.A*2		
Max. DC voltage	550 d.c.V (only for MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH)		
DC voltage range	360-550 d.c.V (only for MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH)		
Max. DC current	17 d.c.A (only for MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH)		
Max.output power	4600W 5000W 6000W		
Max.apparent power	4600VA	5000VA	6000VA
Nominal output voltage	230 a.c.V		
Max.output current	20.9 a.c.A	22.7 a.c.A	27.2 a.c.A
Nominal output Frequency	50/60Hz		
Power factor range	0.8Leading – 0.8 lagging		
Safety level	Class I		
Ingress Protection	IP 65		
Operation Ambient Temperature	-25℃ - +60℃		
Software version	AL 1.0		

Jason Tu

Signature

Name: Jason Fu Position: Supervisor Date: 21 March 2022



This is an Appendix to Test Verification of Conformity Number: 220225027GZU-VOC001.

Model	MIN 2500TL-XA	MIN 3000TL-XA	MIN 3600TL-XA	MIN 4200TL-XA
Max. DC voltage	550 Vdc			
DC voltage range	360-550 Vdc			
Max. DC current	17 A			
Rated input / output power	2500/2500W	3000/3000W	3600/3600W	4200/4200W
Rated apparent power	2500VA	3000VA	3600VA	4200VA
Nominal voltage	230 Vac			
Rated input/output current	11.3/11.3 A	13.6/13.6 A	16/16 A	19/19 A
Nominal Frequency	50Hz			
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	AL 1.0			

Jason Tu

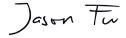
Signature

Name: Jason Fu Position: Supervisor Date: 21 March 2022



This is an Appendix to Test Verification of Conformity Number: 220225027GZU-VOC001.

Model	MIN 4600TL-XA	MIN 5000TL-XA	MIN 6000TL-XA	
Max. DC voltage	550 Vdc			
DC voltage range	360-550 Vdc			
Max. DC current		17 A		
Rated input/output power	4600/4600W	5000/5000W	5000/6000W	
Rated apparent power	4600VA	5000VA	6000VA	
Nominal voltage	230 Vac			
Nominal input/output current	20.9/20.9 A	22.7/22.7 A	22.7/27.2 A	
Nominal Frequency	50Hz			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 65			
Operation Ambient Temperature	-25℃ - +60℃			
Software version	AL 1.0			



Signature

Name: Jason Fu Position: Supervisor Date: 21 March 2022



This is an Appendix to Test Verification of Conformity Number: 220225027GZU-VOC001.

Model	MIN 2500TL-X	MIN 3000TL-X	MIN 3600TL-X	MIN 4200TL-X
Max. PV voltage	500 d.c.V		550 d.c.V	
PV voltage range	80-500 d.c.V		80-550 d.c.V	
PV Isc	16.9 d.c.A*2			
Max. input current		13.5 d.c	.A*2	
Rated. output power	2500W	3000W	3600W	4200W
Rated. apparent power	2500VA	3000VA	3600VA	4200VA
Nominal output voltage	230 a.c.V			
Rated. output current	10.9 a.c.A	13.0 a.c.A	15.7 a.c.A	18.3 a.c.A
Nominal output Frequency	50Hz			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 65			
Overvoltage category	PV:II; AC:III			
Operation Ambient Temperature	-25℃ - +60℃			
Software version	AK1.0			

Jason Tu

**Signature** 

Name: Jason Fu Position: Supervisor Date: 21 March 2022



This is an Appendix to Test Verification of Conformity Number: 220225027GZU-VOC001.

Model	MIN 4600TL-X	MIN 5000TL-X	MIN 6000TL-X
Max. PV voltage	550 d.c.V		
PV voltage range	80-550 d.c.V		
PV Isc	16.9 d.c.A*2		
Max. input current	13.5 d.c.A*2		
Rated. output power	4600W	5000W	6000W
Rated. apparent power	4600VA	5000VA	6000VA
Nominal output voltage	230 a.c.V		
Max. output current	20.0 a.c.A	21.7 a.c.A	26.0 a.c.A
Nominal output Frequency	50Hz		
Power factor range	0.8Leading – 0.8 lagging		
Safety level	Class I		
Ingress Protection	IP 65		
Overvoltage category	PV:II; AC:III		
Operation Ambient Temperature	-25℃ - +60℃		
Software version	AK1.0		

Jason Tu

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Name: Jason Fu Position: Supervisor Date: 21 March 2022