

# Certificate of Conformity

Certificate Number: CN-PV-220173R1

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> 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.

<b>Applicant:</b>	Shenzhen Growatt New Energy Co., Ltd. 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China
<b>Product:</b>	PV Grid inverter & Hybrid inverter & AC Coupled inverter
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	MIN 2500TL-XE, MIN 3000TL-XE, MIN 3600TL-XE, MIN 4200TL-XE, MIN 4600TL-XE, MIN 5000TL-XE, MIN 6000TL-XE MIN 2500TL-XE2, MIN 3000TL-XE2, MIN 3600TL-XE2, MIN 4200TL-XE2, MIN 4600TL-XE2, MIN 5000TL-XE2, MIN 6000TL-XE2 MIN 2500TL-XH, MIN 3000TL-XH, MIN 3600TL-XH, MIN 4200TL-XH, MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH MIN 2500TL-XH2, MIN 3000TL-XH2, MIN 3600TL-XH2, MIN 4200TL-XH2, MIN 4600TL-XH2, MIN 5000TL-XH2, MIN 6000TL-XH2 MIN 2500TL-XA, MIN 3000TL-XA, MIN 3600TL-XA, MIN 4200TL-XA, MIN 4600TL-XA, MIN 5000TL-XA, MIN 6000TL-XA
<b>Brand Name&lt;s&gt;:</b>	GROWATT
<b>Product Complies with:</b>	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
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> 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
<b>Test Report No.&lt;s&gt;:</b>	230403058GZU-015, 230403058GZU-016

Replaces certificate CN-PV-220173 dated 25 August 2022  
Additional information in Appendix.

Signature

**Certification Manager: Grady Ye**  
**Date: 28 September 2023**



PRD N° 306B

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220173R1

Model	MIN 2500TL-XE MIN 2500TL-XE2	MIN 3000TL-XE MIN 3000TL-XE2	MIN 3600TL-XE MIN 3600TL-XE2	MIN 4200TL-XE MIN 4200TL-XE2
Max.PV voltage	500 d.c.V		550 d.c.V	
PV voltage range	70-500 d.c.V (only for MIN 2500TL-XE, MIN 3000TL-XE) 40-500 d.c.V (only for MIN 2500TL-XE2, MIN 3000TL-XE2)		70-550 d.c.V (only for MIN 3600TL-XE, MIN 4200TL-XE) 40-550 d.c.V (only for MIN 3600TL-XE2, MIN 4200TL-XE2)	
PV Isc	16.9 d.c.A*2 (only for MIN 2500TL-XE, MIN 3000TL-XE,MIN 3600TL-XE,MIN 4200TL-XE) 24 d.c.A*2 (only for MIN 2500TL-XE2, MIN 3000TL-XE2,MIN 3600TL-XE2,MIN 4200TL-XE2)			
Max.input current	13.5 d.c.A*2 (only for MIN 2500TL-XE, MIN 3000TL-XE,MIN 3600TL-XE,MIN 4200TL-XE) 16 d.c.A*2 (only for MIN 2500TL-XE2, MIN 3000TL-XE2,MIN 3600TL-XE2,MIN 4200TL-XE2)			
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(only for MIN 2500TL-XE, MIN 3000TL-XE, MIN 3600TL-XE,MIN 4200TL-XE) IP 66(only for MIN 2500TL-XE2, MIN 3000TL-XE2,MIN 3600TL-XE2,MIN 4200TL-XE2)			
Operation Ambient Temperature	-25°C - +60°C(only for MIN 2500TL-XE, MIN 3000TL-XE, MIN 3600TL-XE,MIN 4200TL-XE) -30°C - +60°C(only for MIN 2500TL-XE2, MIN 3000TL-XE2,MIN 3600TL-XE2,MIN 4200TL-XE2)			
Software version	AL 1.0			

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220173R1

Model	MIN 4600TL-XE MIN 4600TL-XE2	MIN 5000TL-XE MIN 5000TL-XE2	MIN 6000TL-XE MIN 6000TL-XE2
Max.PV voltage	550 d.c.V		
PV voltage range	70-550 d.c.V (only for MIN 4600TL-XE, MIN 5000TL-XE, MIN 6000TL-XE) 40-550 d.c.V (only for MIN 4600TL-XE2, MIN 5000TL-XE2, MIN 6000TL-XE2)		
PV Isc	16.9 d.c.A*2 (only for MIN 4600TL-XE, MIN 5000TL-XE, MIN 6000TL-XE) 24 d.c.A*2 (only for MIN 4600TL-XE2, MIN 5000TL-XE2, MIN 6000TL-XE2)		
Max.input current	13.5 d.c.A*2 (only for MIN 4600TL-XE, MIN 5000TL-XE, MIN 6000TL-XE) 16 d.c.A*2 (only for MIN 4600TL-XE2, MIN 5000TL-XE2, MIN 6000TL-XE2)		
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(only for MIN 2500TL-XE, MIN 3000TL-XE, MIN 3600TL-XE,MIN 4200TL-XE) IP 66(only for MIN 2500TL-XE2, MIN 3000TL-XE2,MIN 3600TL-XE2,MIN 4200TL-XE2)		
Operation Ambient Temperature	-25°C - +60°C (only for MIN 2500TL-XE, MIN 3000TL-XE, MIN 3600TL-XE,MIN 4200TL-XE) -30°C - +60°C (only for MIN 2500TL-XE2, MIN 3000TL-XE2,MIN 3600TL-XE2,MIN 4200TL-XE2)		
Software version	AL 1.0		

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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			

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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°C - +60°C		
Software version	AL 1.0		

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Model	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	70-500 d.c.V		70-550 d.c.V	
PV Isc	16.9 d.c.A*2			
Max.input current	13.5 d.c.A*2			
Max. DC voltage	500 d.c.V		550 d.c.V	
DC voltage range	360-500 d.c.V		360-550 d.c.V	
Max. DC current	17 d.c.A			
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	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			

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Model	MIN 4600TL-XH	MIN 5000TL-XH	MIN 6000TL-XH
Max.PV voltage	550 d.c.V		
PV voltage range	70-550 d.c.V		
PV Isc	16.9 d.c.A*2		
Max.input current	13.5 d.c.A*2		
Max. DC voltage	550 d.c.V		
DC voltage range	360-550 d.c.V		
Max. DC current	17 d.c.A		
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	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		

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Model	MIN 2500TL-XH2	MIN 3000TL-XH2	MIN 3600TL-XH2	MIN 4200TL-XH2
Max.PV voltage	500 d.c.V		550 d.c.V	
PV voltage range	40-500 d.c.V		40-550 d.c.V	
PV Isc	24 d.c.A*2			
Max.input current	16 d.c.A*2			
Max. DC voltage	500 d.c.V		550 d.c.V	
DC voltage range	360-500 d.c.V		360-550 d.c.V	
Max. DC current	17 d.c.A			
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	50Hz			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	AL 1.0			

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Model	MIN 4600TL-XH2	MIN 5000TL-XH2	MIN 6000TL-XH2
Max.PV voltage	550 d.c.V		
PV voltage range	40-550 d.c.V		
PV Isc	24 d.c.A*2		
Max.input current	16 d.c.A*2		
Max. DC voltage	550 d.c.V		
DC voltage range	360-550 d.c.V		
Max. DC current	17 d.c.A		
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	50Hz		
Power factor range	0.8Leading – 0.8 lagging		
Safety level	Class I		
Ingress Protection	IP 66		
Operation Ambient Temperature	-30°C - +60°C		
Software version	AL 1.0		

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