

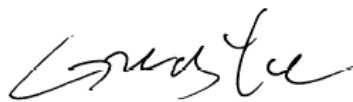
Certificate of Conformity

Certificate Number: 181016135GZU-002

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. This certificate is part of the full test report<s> and should be read in conjunction with it ;

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, Shiyuan Street, Baoan District, Shenzhen, P.R.China
Product Description:	PV Grid inverter
Ratings & Principle Characteristics:	See Annex to Test Certificate of Conformity
Models:	MIN 2500TL-X, MIN 3000TL-X, MIN 3600TL-X, MIN 4200TL-X, MIN 4600TL-X, MIN 5000TL-X, MIN 6000TL-X MIN 2500TL-XH, MIN 3000TL-XH, MIN 3600TL-XH, MIN 4200TL-XH, MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH
Relevant Standards	DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device Type approval for Greece
Certificate Issuing Office:	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
Date of Tests:	16 Oct 2018 to 21 Feb 2019
Test Report Number(s):	181016135GZU-002

Additional information in Appendix.



Signature

Name: Grady Ye
Position: Manager
Date: 27 Feb 2019



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APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181016135GZU-002;

Ratings and principal characteristics

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 d.c.A*2			
Max.input current	12.5 d.c.A*2			
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			
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 d.c.A*2			
Max.input current	12.5 d.c.A*2			
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	

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Ratings and principal characteristics

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			
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	80-500 d.c.V		80-550 d.c.V	
PV Isc	16 d.c.A*2			
Max.input current	12.5 d.c.A*2			
Max. DC voltage	480 d.c.V			
DC voltage range	350-480 d.c.V			
Max. DC current	10 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	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			

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Ratings and principal characteristics

Model	MIN 4600TL-XH	MIN 5000TL-XH	MIN 6000TL-XH
Max.PV voltage	550 d.c.V		
PV voltage range	80-550 d.c.V		
PV Isc	16 d.c.A*2		
Max.input current	12.5 d.c.A*2		
Max. DC voltage	480 d.c.V		
DC voltage range	350-480 d.c.V		
Max. DC current	10 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	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	AL1.0 for MIN TL-XH series, AK 1.0 for MIN TL-X series		

* με dc-injection <0,5% ησσ IAC_{nom} (ονομαζητικό εναλλαζόμενο ρεύμα)
 49,5 Hz < f < 50,5 Hz (ηπειρωτικές περιοχές)
 47,5 Hz < f < 51 Hz (νησιωτικές περιοχές)
 Χρόνος αποζύνδεξης < 500 ms
 Χρόνος επαναζύνδεξης > 180 s

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