

Certificate of Conformity

Certificate Number: CN-PV-190078

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MAX 50KTL3 LV, MAX 60KTL3 LV, MAX 70KTL3 LV, MAX 75KTL3 LV, MAX 80KTL3 LV, MAX 60KTL3 MV, MAX 70KTL3 MV, MAX 80KTL3 MV
Brand Name:	Growatt
Tested according to:	DIN V VDE V0126-1-1:2013.08 Automatic disconnection device between a generator and the public low-voltage grid Type approved for Greece
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	191120148GZU-003

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 04 December 2019

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-190078.

Ratings & Principle Characteristics:

Model	MAX 80KTL3 LV	MAX 60KTL3 MV	MAX 70KTL3 MV	MAX 80KTL3 MV
Max. PV voltage	1100 d.c.V			
PV voltage range	200-1000 d.c.V			
PV Isc	32 d.c.A*7	32 d.c.A*6	32 d.c.A*7	
Max. input current	26 d.c.A*7	26 d.c.A*6	26 d.c.A*7	
Max. output power	80000W	60000W	70000W	80000W
Max. apparent power	88800VA	66600VA	77700VA	88800VA
Nominal output voltage	3W/N/PE 230/400 a.c.V	3W/N/PE or 3W+PE 277/480 a.c.V		
Max. output current	128.8 a.c.A	80.2 a.c.A	93.6 a.c.A	107.0 a.c.A
Nominal output frequency	50Hz			
Power factor range	0.8Leading ~ 0.8Lagging			
Safety level	Class I			
Ingress Protection	IP65			
Operation Ambient Temperature	-25°C - +60°C			
Software Version	TI1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-190078.

Ratings & Principle Characteristics:

Model	MAX 50KTL3 LV	MAX 60KTL3 LV	MAX 70KTL3 LV	MAX 75KTL3 LV
Max. PV voltage	1100 d.c.V			
PV voltage range	200-1000 d.c.V			
PV Isc	32 d.c.A*6		32 d.c.A*7	
Max. input current	26 d.c.A*6		26 d.c.A*7	
Max. output power	50000W	60000W	70000W	75000W
Max. apparent power	55500VA	66600VA	77700VA	83300VA
Nominal output voltage	3W/N/PE 230/400 a.c.V			
Max. output current	80.5 a.c.A	96.6 a.c.A	112.7 a.c.A	120.8 a.c.A
Nominal output frequency	50Hz			
Power factor range	0.8Leading ~ 0.8Lagging			
Safety level	Class I			
Ingress Protection	IP65			
Operation Ambient Temperature	-25°C - +60°C			
Software Version	TI1.0			

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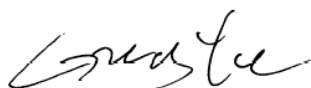
Certificate of Conformity

Certificate Number: CN-PV-200032

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MIC 750TL-X, MIC 1000TL-X, MIC 1500TL-X, MIC 2000TL-X, MIC 2500TL-X, MIC 3000TL-X, MIC 3300TL-X
Brand Name:	Growatt
Tested according to:	DIN V VDE V 0126-1-1:2013.08
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	200228032GZU-003

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 14 April 2020

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200032

Ratings & Principle Characteristics:

Maximum d.c. input voltage: 500 Vdc (for MIC 750TL-X, MIC 1000TL-X, MIC 1500TL-X, MIC 2000TL-X); 550Vdc (MIC 2500TL-X, MIC 3000TL-X, MIC 3300TL-X)
Input voltage range: 50-500Vdc (for MIC 750TL-X, MIC 1000TL-X, MIC 1500TL-X, MIC 2000TL-X); 65-550Vdc (MIC 2500TL-X, MIC 3000TL-X, MIC 3300TL-X)
MPPT voltage range (full Load): 65-450Vdc (for MIC 750TL-X);85-450Vdc (MIC 1000TL-X); 130-450Vdc (for MIC 1500TL-X);170-450Vdc (for MIC 2000TL-X);200-500Vdc (for MIC 2500TL-X);250-500Vdc (for MIC 3000TL-X);270-500Vdc (for MIC 3300TL-X)
Max. input current: 13A
PV Isc: 16A
Nominal output voltage: 230Vac
Max. output current: 3.6A(for MIC 750TL-X);4.8A (for MIC 1000TL-X);7.1A (for MIC 1500TL-X);9.5A (for MIC 2000TL-X);11.9A (for MIC 2500TL-X);14.3A (for MIC 3000TL-X, MIC 3300TL-X)
Nominal frequency: 50Hz
Nominal. output power: 750W (for MIC 750TL-X);1000W (for MIC 1000TL-X);1500W (for MIC 1500TL-X);2000W (for MIC 2000TL-X);2500W (for MIC 2500TL-X);3000W (for MIC 3000TL-X);3300W (MIC 3300TL-X)
Max. apparent power: 750VA (for MIC 750TL-X);1000VA (for MIC 1000TL-X);1500VA (for MIC 1500TL-X);2000VA (for MIC 2000TL-X);2500VA (for MIC 2500TL-X);3000VA (for MIC 3000TL-X);3300VA (MIC 3300TL-X)
Power factor range: 0.8leading ~ 0.8lagging
Safety level: Class I
Ingress protection: IP65
Operating temperature range: -25 ~ +60°C
Software Version: GH1.0

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Certificate of Conformity

Certificate Number: CN-PV-200002

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MID 10KTL3-X, MID 12KTL3-X, MID 15KTL3-X, MID 17KTL3-X, MID 20KTL3-X, MID 22KTL3-X, MID 25KTL3-X
Brand Name:	Growatt
Tested according to:	DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	190416196GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 14 January 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-200002

Ratings & Principle Characteristics:

Maximum d.c. input voltage: 1100 Vdc

Input voltage range: 160-1000Vdc

MPPT voltage range (full Load): 280-850 V (for MID 10KTL3-X, MID 12KTL3-X); 420-850 V (for MID 15KTL3-X); 480-850 V (for MID 17KTL3-X, MID 20KTL3-X); 520-850 V (for MID 22KTL3-X, MID 25KTL3-X);

Max. input current: 2×25A (for the models except MID 25KTL3-X), 25/37.5A (for MID 25KTL3-X)

PV Isc: 2×32A (for the models except MID 25KTL3-X), 32/48A (for MID 25KTL3-X)

Nominal output voltage: 3W/N/PE 230V/400Vac

Max. output current: 16.0A (for MID 10KTL3-X); 19.3A (for MID 12KTL3-X); 24.2A (for MID 15KTL3-X); 27.4A (for MID 17KTL3-X); 31.9 A (for MID 20KTL3-X); 35.5A (for MID 22KTL3-X); 40.2 A (for MID 25KTL3-X)

Nominal frequency: 50/60 Hz

Max. output power: 10000W (for MID 10KTL3-X); 12000W (for MID 12KTL3-X); 15000W (for MID 15KTL3-X); 17000W (for MID 17KTL3-X); 20000W (for MID 20KTL3-X); 22000W (for MID 22KTL3-X); 25000W (for MID 25KTL3-X)

Max. apparent power: 11100VA (for MID 10KTL3-X); 13300VA (for MID 12KTL3-X); 16600VA (for MID 15KTL3-X); 18800VA (for MID 17KTL3-X); 22000VA (for MID 20KTL3-X); 24400VA (for MID 22KTL3-X); 27700VA (for MID 25KTL3-X)

Power factor range: 0.8 leading ~ 0.8 lagging

Safety level: Class I

Ingress protection: IP65

Operating temperature range: -25 ~ +60°C

Software Version: TJ1.0

Certificate of Conformity

Certificate Number: CN-PV-200099

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MID 17KTL3-X1, MID 20KTL3-X1, MID 22KTL3-X1, MID 25KTL3-X1, MID 30KTL3-X, MID 33KTL3-X, MID 36KTL3-X, MID 40KTL3-X
Brand Name:	GROWATT
Tested according to:	DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	200426141GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 03 August 2020

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200099

Ratings &
Principle
Characteristics:

Model	MID 17KTL3- X1	MID 20KTL3- X1	MID 22KTL3- X1	MID 25KTL3- X1
Max.PV voltage	1100Vdc			
PV voltage range	200V – 1000Vdc			
Max.input current	26A*3			
PV Isc	32A*3			
Nominal output voltage	3W/N/PE, 230/400Vac			
Nominal output Frequency	50Hz			
Max.output current	28.5A	33.3A	36.7A	41.9A
Max.output power	17000W	20000W	22000W	25000W
Max.apparent power	18800VA	22000VA	24200VA	27700VA
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-25°C - +60°C			
Software Version	DM1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200099

Ratings &
Principle
Characteristics:

Model	MID 30KTL3-X	MID 33KTL3-X	MID 36KTL3-X	MID 40KTL3-X
Max.PV voltage	1100Vdc			
PV voltage range	200V – 1000Vdc			
Max.input current	26A*3		26A*4	
PV Isc	32A*3		32A*4	
Nominal output voltage	3W/N/PE 230/400Vac			
Nominal output Frequency	50Hz			
Max.output current	50.5A	55.5A	60.0A	66.6A
Max.output power	30000W	33000W	36000W	40000W
Max.apparent power	33300VA	36600VA	39600VA	44000VA
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-25°C - +60°C			
Software version	DM1.0			

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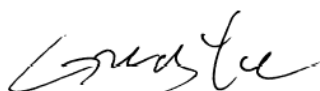
Certificate of Conformity

Certificate Number: 181016135GZU-001

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, Shiyan 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
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-001

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-001;

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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APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181016135GZU-001;

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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APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181016135GZU-001;

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		

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Certificate of Conformity

Certificate Number: CN-PV-200089

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.

Applicant:	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
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models:	MOD 3000TL3-X, MOD 4000TL3-X, MOD 5000TL3-X, MOD 6000TL3-X, MOD 7000TL3-X, MOD 8000TL3-X, MOD 9000TL3-X, MOD 10KTL3-X, MOD 11KTL3-X, MOD 12KTL3-X, MOD 13KTL3-X, MOD 15KTL3-X
Brand Name:	GROWATT
Tested according to:	DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai 2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area, Shanghai, P. R. China
Test Reports No:	200427166GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 21 Jul 2020

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200089

Ratings &
Principle
Characteristics:

Model	MOD 3000TL3- X	MOD 4000TL3- X	MOD 5000TL3- X	MOD 6000TL3- X
Max. PV voltage	1100Vdc			
PV voltage range	140 – 1000Vdc			
PV Isc	2*16A			
Max. input current	2*13A			
Max. output power	3000 W	4000 W	5000 W	6000 W
Max. apparent power	3300 VA	4400 VA	5500 VA	6600 VA
Nominal output voltage	3W/N/PE 230/400Vac			
Max. output current	5.0A	6.7A	8.3A	10.0A
Nominal output frequency	50 Hz			
Power factor range	0.8Leading to 0.8Lagging			
Safety level	Class I			
Ingress protection	IP66			
Operation ambient temperature	-25°C ~ +60°C			
Software Version	DL 1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200089.

Ratings &
Principle
Characteristics:

Model	MOD 7000TL3-X	MOD 8000TL3-X	MOD 9000TL3-X	MOD 10KTL3-X
Max. PV voltage	1100Vdc			
PV voltage range	140 – 1000Vdc			
PV Isc	2*16A			
Max. input current	2*13A			
Max. output power	7000 W	8000 W	9000 W	10000 W
Max. apparent power	7700 VA	8800 VA	9900 VA	11000 VA
Nominal output voltage	3W/N/PE 230/400Vac			
Max. output current	11.7A	13.3A	15.0A	16.7A
Nominal output frequency	50 Hz			
Power factor range	0.8Leading to 0.8Lagging			
Safety level	Class I			
Ingress protection	IP66			
Operation ambient temperature	-25°C ~ +60°C			
Software Version	DL 1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-200089.

Ratings &
Principle
Characteristics:

Model	MOD 11KTL3-X	MOD 12KTL3-X	MOD 13KTL3-X	MOD 15KTL3-X
Max. PV voltage	1100Vdc			
PV voltage range	140 – 1000Vdc			
PV Isc	2*16A	16/32A		
Max. input current	2*13A	13/26A		
Max. output power	11000 W	12000 W	13000 W	15000 W
Max. apparent power	12100 VA	13200 VA	14300 VA	16500 VA
Nominal output voltage	3W/N/PE 230/400Vac			
Max. output current	18.3A	20.0A	21.7A	25.0A
Nominal output frequency	50 Hz			
Power factor range	0.8Leading to 0.8Lagging			
Safety level	Class I			
Ingress protection	IP66			
Operation ambient temperature	-25°C ~ +60°C			
Software Version	DL 1.0			

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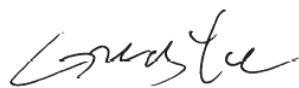
Certificate of Conformity

Certificate Number: 180711108GZU-001

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, Shiyan Street, Baoan District, Shenzhen, P.R.China
Product Description:	PV Grid inverter
Ratings & Principle Characteristics:	See Annex to Certificate of Conformity
Models:	Growatt 3000-S, Growatt 2500-S, Growatt 2000-S, Growatt 1500-S, Growatt 1000-S, Growatt 750-S
Relevant Standards	DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device
Certificate Issuing Office:	Same as Intertek Legal Entity
Date of Tests:	12 Jul 2018 – 31 Aug 2018
Test Report Number(s):	180711108GZU-001

Additional information in Appendix.



Signature

Name: Grady Ye
Position: Manager
Issuing Office: Intertek Legal Entity: Intert
Testing Services Shenzhen Ltd.
Guangzhou Branch
Date: 03 Sep 2018



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APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with certificate/Report Number(s): 180711108GZU-001. The issuing office is Intertek Legal Entity as above.

Ratings and principal characteristics

Model	Growatt 3000-S	Growatt 2500-S	Growatt 2000-S	Growatt 1500-S	Growatt 1000-S	Growatt 750-S
Input						
Max. DC input Voltage:	550Vdc	500Vdc	450Vdc			
Max. input current:	13A	12A	11A	10A	10A	11A
DC input range:	70-550Vdc	70-500Vdc	70-450Vdc			50-450Vdc
Output						
Nominal AC output voltage:	230Vac					
Nominal frequency:	50Hz					
AC output power:	3000VA	2500VA	2000VA	1600VA	1000VA	750VA
Nominal AC output current:	13A	10.8A	8.7A	6.9A	4.3A	3.3A
Power factor:	0.8 Leading to 0.8 Lagging					
Ingress protection:	IP65					
Protection Class:	Class I					
Operation Ambient Temp.:	-25°C to +60°C					

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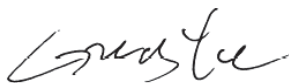
Certificate of Conformity

Certificate Number: 171114063GZU-003

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, Shiyan Street, Baoan District, Shenzhen, P.R.China
Product Description:	PV Grid inverter
Ratings & Principle Characteristics:	See Annex to Certificate of Conformity
Models:	Growatt 3000 TL3-S, Growatt 4000 TL3-S, Growatt 5000 TL3-S, Growatt 6000 TL3-S, Growatt 7000 TL3-S, Growatt 8000 TL3-S Growatt 9000 TL3-S, Growatt 10000 TL3-S, Growatt 11000 TL3-S
Relevant Standards	DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device
Certificate Issuing Office:	Same as Intertek Legal Entity
Date of Tests:	14 Nov., 2017 – 27 April., 2018
Test Report Number(s):	161118021GZU-004 dated 31 Mar., 2017 & Revision 1:27 Oct., 2017 & Revision 1: 13 Jun., 2018

Additional information in Appendix.



Signature

Name: Grady Ye
Position: Manager
Issuing Office: Intertek Legal Entity: Intertek
Testing Services Shenzhen Ltd.
Guangzhou Branch
Date: 14 Jun 2018



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. The observations and test/inspection results referenced in this Certificate are relevant only to the sample tested/inspected. This Certificate by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with certificate/Report Number(s): 161118021GZU-004 dated 31 Mar., 2017 & Revision 1:27 Oct., 2017 & Revision 1: 13 Jun., 2018. The issuing office is Intertek Legal Entity as above.

Ratings and principal characteristics

MODEL	Growatt 8000 TL3-S	Growatt 9000 TL3-S	Growatt 10000 TL3-S	Growatt 11000 TL3-S	Growatt 7000 TL3-S
Max PV voltage	1000Vdc				
Voltage range	160-1000Vdc				
MPPT voltage	360-850	400-850	450-850		320-850
PV Isc	16A/16A				
Max power	8.8KVA	9.9KVA	11.0KVA	12.1KVA	7.7KVA
Max output current	3*13.3A	3*15A	3*16.7A	3*18.3A	3*11.7A
Output voltage	3W/N/PE 230Vac/400Vac				
Nominal Frequency	50Hz				
Power Factor	0.8 Leading to 0.8 Lagging				
Ambient Temperature	-25°C - +60°C				
Protection Degree	IP65				
Protection Class	Class I				

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APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with certificate/Report Number(s): 161118021GZU-004 dated 31 Mar., 2017 & Revision 1:27 Oct., 2017 & Revision 1: 13 Jun., 2018. The issuing office is Intertek Legal Entity as above.

Ratings and principal characteristics

MODEL	Growatt 3000 TL3-S	Growatt 4000 TL3-S	Growatt 5000 TL3-S	Growatt 6000 TL3-S
Max PV voltage	1000Vdc			
Voltage range	140-1000Vdc			
MPPT voltage	160-800	200-800	250-800	290-800
PV Isc	16A/16A			
Max power	3.0KVA	4.0KVA	5.0KVA	6.0KVA
Max output current	3*4.5A	3*6.1A	3*7.6A	3*9.1A
Output voltage	3W/N/PE 230Vac/400Vac			
Nominal Frequency	50Hz			
Power Factor	0.8 Leading to 0.8 Lagging			
Ambient Temperature	-25°C - +60°C			
Protection Degree	IP65			
Protection Class	Class I			

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**BUREAU
VERITAS**

Certificate of Conformity

Certificate No.: 1788AP1127N010001

Equipment: PV grid inverter

Brand Name: 

Test Model No.: Growatt 12000 TL3, Growatt 12000 TL3-S,
Growatt 13000 TL3-S, Growatt 15000 TL3-S

Applicant: 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

Report No.: PVDE171127N010-1

Use in accordance with regulations:

Power generation systems connected to the low-voltage distribution network.

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Applied rules and standards

DIN VDE 0126-1-1 (VDE V 0126-1-1):2013-08

Automatic disconnection device between a generator and the public low-voltage grid



Name: Ted Wu
Senior Manager/ PV Inverter Team
Date: 2018-05-10

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Information given in this document is related to the tested specimen of the described electrical sample.

Certificate of Conformity

Verification Number: 180314093GZU-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 verification is part of the full test report<s> and should be read in conjunction with it ; This verification replaces previous verification number 160816043GZU-001 dated: 27-Oct-2016

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, Shiyan Street, Baoan District,
Shenzhen, P.R.China

Product Description:

PV Grid inverter

Ratings & Principle
Characteristics:

See Annex to Test Verification of Conformity

Models:

Growatt 17000TL3-S, Growatt 17000TL3-SE, Growatt 20000TL3-S,
Growatt 20000TL3-SE, Growatt 25000TL3-S, Growatt 25000TL3-SE,
Growatt 30000TL3-S, Growatt 30000TL3-SE, Growatt 33000TL3-S,
Growatt 33000TL3-SE, Growatt 40000TL3-NS, Growatt 40000TL3-NSE,
Growatt 50000TL3-S, Growatt 50000TL3-SE

Relevant Standards

DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device

Verification Issuing Office:

Same as Intertek Legal Entity

Date of Tests:

14 Mar., 2018 – 20 May., 2018

Test Report Number(s):

160816043GZU-001 and Revision 1:31 May., 2018

Additional information in Appendix.



Signature

Name: Grady Ye

Position: Manager

Issuing Office: Intertek Legal Entity: Intertek
Testing Services Shenzhen Ltd.
Guangzhou Branch

Date: 05 Jun 2018

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APPENDIX: Test Verification of Conformity

This is an Annex to Test Verification of Conformity with Verification/Report Number(s): 160816043GZU-004 and Revision 1:31 May., 2018. The issuing office is Intertek Legal Entity as above.

Ratings and principal characteristics

MODEL	Growatt 30000TL3-S, Growatt 30000TL3-SE	Growatt 33000TL3-S, Growatt 33000TL3-SE	Growatt 40000TL3-NS, Growatt 40000TL3-NSE	Growatt 50000TL3-S, Growatt 50000TL3-SE
Max PV voltage	1000Vdc			
Voltage range	200-1000Vdc			
MPPT voltage	450-800Vdc		540-800Vdc	645-850Vdc
Max input current	34A/34A	38A/38A		
PV Isc	64A/64A			
Max power	33.3KVA	36.6KVA	44.4KVA	53.3KVA
Max AC output current	3*48A	3*54A	3*64A	3*64A
Output voltage	3W/N/PE 230Vac/400Vac			3W/PE, 480Vac
Nominal Frequency	50Hz			
Power Factor	0.8 Leading to 0.8 Lagging			
Ambient Temperature	-25°C - +60°C			
Protection Degree	IP65			

Signature


Name: Grady Ye
Position: Manager
Issuing Office: Intertek Legal Entity: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Date: 05 Jun 2018



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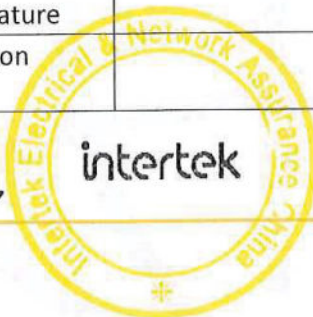
APPENDIX: Test Verification of Conformity

This is an Annex to Test Verification of Conformity with Verification/Report Number(s): 160816043GZU-001 and Revision 1:31 May., 2018.. The issuing office is Intertek Legal Entity as above.

Ratings and principal characteristics

MODEL	Growatt 17000TL3-S, Growatt 17000TL3-SE	Growatt 20000TL3-S, Growatt 20000TL3-SE	Growatt 25000TL3-S, Growatt 25000TL3-SE
Max PV voltage	1000Vdc		
Voltage range	200-1000Vdc		
MPPT voltage (full load)	400-800Vdc		
Max input current	37.5/37.5A		
PV Isc	45A/45A		
Max power	18.8KVA	22.2KVA	27.7KVA
Output voltage	3W/N/PE 230Vac/400Vac		
Max output current	3×27.5 A	3×32.2	3×40.3
Nominal Frequency	50Hz		
Power Factor	0.8 Leading to 0.8 Lagging		
Ambient Temperature	-25°C - +60°C		
Protection Degree	IP65		

Grady Ye



Signature

Name: Grady Ye
Position: Manager
Issuing Office: Intertek Legal Entity: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Date: 05 Jun 2018

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