

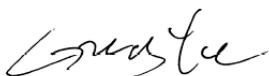
# Certificate of Conformity

Certificate Number: CN-PV-210045

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.

|   |  |
|---|--|
| <b>Applicant:</b>                                     | Shenzhen Growatt New Energy Co., Ltd.<br>2F and 3F, Building 4, Jiayu Company Industrial Park, Xibianling, Shangyu Village, Shiyan Street, Bao'an District, Shenzhen, China  |
| <b>Product:</b>                                       | PV Grid Inverter   |
| <b>Ratings &amp; Principle Characteristics:</b>       | See appendix of Certificate of Conformity  |
| <b>Model:</b>   | MIN 7000TL-X, MIN 7000TL-X(E), MIN 8000TL-X, MIN 8000TL-X(E), MIN 9000TL-X, MIN 10000TL-X  |
| <b>Brand Name:</b>                                    | GROWATT  |
| <b>Tested according to:</b>                           | IEC/EN 62109-1:2010(First Edition)<br>Safety of Power Converter for use in Photovoltaic Power Systems Part 1: General requirements<br>IEC/EN 62109-2:2011<br>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<br>West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China   |
| <b>Test Report No.&lt;s&gt;:</b>                      | 201230060GZU-001, 201230060GZU-002   |

Additional information in Appendix.



Signature

**Certification Manager: Grady Ye**

**Date: 23 March 2021**

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-210045

### Ratings & Principle Characteristics:

| Model                              | MIN 7000TL-X             | MIN 7000TL-X(E) |
|------------------------------------|--------------------------|-----------------|
| Max.PV voltage                     | 600 d.c.V                |                 |
| PV voltage range                   | 60-550 d.c.V             |                 |
| Max.input current per MPP trackers | 13.5/13.5/13.5 d.c.A     | 13.5/27 d.c.A   |
| PV Isc per MPP trackers            | 16.9/16.9/16.9 d.c.A     | 16.9/33.8 d.c.A |
| Max.output power                   | 7000W                    | 7000W           |
| Max.apparent power                 | 7000VA                   | 7000VA          |
| Nominal output voltage             | 230 a.c.V                |                 |
| Max.output current                 | 33.5 a.c.A               | 33.5 a.c.A      |
| Nominal output Frequency           | 50/60 Hz                 |                 |
| 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                   | AM1.0                    |                 |

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210045

### Ratings & Principle Characteristics:

| Model                              | MIN 8000TL-X             | MIN 8000TL-X(E) |
|------------------------------------|--------------------------|-----------------|
| Max.PV voltage                     | 600 d.c.V                |                 |
| PV voltage range                   | 60-550 d.c.V             |                 |
| Max.input current per MPP trackers | 13.5/13.5/13.5 d.c.A     | 13.5/27 d.c.A   |
| PV Isc per MPP trackers            | 16.9/16.9/16.9 d.c.A     | 16.9/33.8 d.c.A |
| Max.output power                   | 8000W                    | 8000W           |
| Max.apparent power                 | 8000VA                   | 8000VA          |
| Nominal output voltage             | 230 a.c.V                |                 |
| Max.output current                 | 38.3 a.c.A               | 38.3 a.c.A      |
| Nominal output Frequency           | 50/60 Hz                 |                 |
| 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                   | AM1.0                    |                 |

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210045

### Ratings & Principle Characteristics:

| Model                              | MIN 9000TL-X             | MIN 10000TL-X |
|------------------------------------|--------------------------|---------------|
| Max.PV voltage                     | 600 d.c.V                |               |
| PV voltage range                   | 60-550 d.c.V             |               |
| Max.input current per MPP trackers | 13.5/13.5/27 d.c.A       |               |
| PV Isc per MPP trackers            | 16.9/16.9/33.8 d.c.A     |               |
| Max.output power                   | 9000W                    | 10000W        |
| Max.apparent power                 | 9000VA                   | 10000VA       |
| Nominal output voltage             | 230 a.c.V                |               |
| Max.output current                 | 43.0 a.c.A               | 45.5 a.c.A    |
| Nominal output Frequency           | 50/60 Hz                 |               |
| 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                   | AM1.0                    |               |

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