

# Certificate of Conformity

Certificate Number: CN-PVES-240355

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 Name & Address:                  | Shenzhen Growatt New Energy Co., Ltd.<br>4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave,<br>Bao'an District, Shenzhen, China   |
| Product Description:                       | PV Grid inverter  |
| Ratings & Principle Characteristics:       | See Annex to Certificate of Conformity  |
| Models/Type References:                    | MOD 3000TL3-X, MOD 4000TL3-X, MOD 5000TL3-X, MOD 6000TL3-X,<br>MOD 7000TL3-X, MOD 8000TL3-X, MOD 9000TL3-X, MOD 10KTL3-X,<br>MOD 11KTL3-X, MOD 12KTL3-X, MOD 13KTL3-X, MOD 15KTL3-X<br>MOD 3000TL3-X2(Pro), MOD 4000TL3-X2(Pro), MOD 5000TL3-X2(Pro),<br>MOD 6000TL3-X2(Pro), MOD 7000TL3-X2(Pro), MOD 8000TL3-X2(Pro),<br>MOD 9000TL3-X2(Pro), MOD 10KTL3-X2(Pro), MOD 11KTL3-X2(Pro),<br>MOD 12KTL3-X2(Pro), MOD 13KTL3-X2(Pro), MOD 15KTL3-X2(Pro) |
| Brand Name:                                | GROWATT   |
| Specification/Standard:                    | SHAMS DUBAI - DRRG Standards Version 2.0 March 2016<br>STANDARDS FOR DISTRIBUTED RENEWABLE RESOURCES GENERATORS<br>CONNECTED TO THE DISTRIBUTION NETWORK  |
| Certificate Issuing Office Name & Address: | Intertek Testing Services Ltd. Shanghai<br>West Area, 2nd Floor, No. 707, Zhangyang Road<br>China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China   |
| Test Report Number:                        | Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012<br>240126006GZU-002, 16 Jul 2024   |

Additional information in Appendix.



**Signature**

**Certification Manager: Grady Ye**

**Date: 30 Jul 2024**



PRD N° 306B

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240355

| 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             | 3000W                   | 4000W         | 5000W         | 6000W         |
| Max. apparent power           | 3300VA                  | 4400VA        | 5500VA        | 6600VA        |
| Nominal output voltage        | 3W/N/PE 230/400Vac      |               |               |               |
| Max. output current           | 5.0A                    | 6.7A          | 8.3A          | 10.0A         |
| Nominal output frequency      | 50/60Hz                 |               |               |               |
| Power factor range            | 0.8Leading ~ 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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| 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             | 7000W                   | 8000W         | 9000W         | 10000W       |
| Max. apparent power           | 7700VA                  | 8800VA        | 9900VA        | 11000VA      |
| Nominal output voltage        | 3W/N/PE 230/400Vac      |               |               |              |
| Max. output current           | 11.7A                   | 13.3A         | 15.0A         | 16.7A        |
| Nominal output frequency      | 50/60Hz                 |               |               |              |
| Power factor range            | 0.8Leading ~ 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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| 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             | 11000W                  | 12000W       | 13000W       | 15000W       |
| Max. apparent power           | 12100VA                 | 13200VA      | 14300VA      | 16500VA      |
| Nominal output voltage        | 3W/N/PE 230/400Vac      |              |              |              |
| Max. output current           | 18.3A                   | 20.0A        | 21.7A        | 25.0A        |
| Nominal output frequency      | 50/60Hz                 |              |              |              |
| Power factor range            | 0.8Leading ~ 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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| Model                                       | MOD 3000TL3-X2(Pro)                 | MOD 4000TL3-X2(Pro) | MOD 5000TL3-X2(Pro) | MOD 6000TL3-X2(Pro)                 | MOD 7000TL3-X2(Pro) | MOD 8000TL3-X2(Pro) |
|---|-------------------------------------|---------------------|---------------------|-------------------------------------|---------------------|---------------------|
| Max. DC voltage                             | 1100V                               |                     |                     |                                     |                     |                     |
| MPP voltage range                           | 140-1000V                           |                     |                     |                                     |                     |                     |
| Full-load voltage range                     | 250-850V                            |                     |                     | 300-850V                            |                     |                     |
| No. of MPP trackers                         | 2                                   |                     |                     |                                     |                     |                     |
| No. of PV strings per MPP trackers          | 1/1                                 |                     |                     |                                     |                     |                     |
| Max. input current per MPP trackers         | 20A/20A                             |                     |                     |                                     |                     |                     |
| Max. short-circuit current per MPP trackers | 25A/25A                             |                     |                     |                                     |                     |                     |
| AC rated power                              | 3kW                                 | 4kW                 | 5kW                 | 6kW                                 | 7kW                 | 8kW                 |
| Max. AC apparent power                      | 3.3kVA                              | 4.4kVA              | 5.5kVA              | 6.6kVA                              | 7.7kVA              | 8.8kVA              |
| Nominal AC voltage                          | 3W/N/PE,220V/380V; 230V/400V        |                     |                     |                                     |                     |                     |
| AC grid frequency                           | 50/60 Hz                            |                     |                     |                                     |                     |                     |
| Max. output current                         | 5.0A                                | 6.7A                | 8.3A                | 10.0A                               | 11.7A               | 13.3A               |
| Adjustable power factor                     | 0.8Leading ...0.8Lagging            |                     |                     |                                     |                     |                     |
| Operating temperature range                 | -25°C ... +60°C<br>(>45°C Derating) |                     |                     | -25°C ... +60°C<br>(>40°C Derating) |                     |                     |
| Protection degree                           | IP66                                |                     |                     |                                     |                     |                     |
| Software Version                            | DL1.0                               |                     |                     |                                     |                     |                     |

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| Model                                       | MOD 9000TL3-X2(Pro)                 | MOD 10KTL3-X2(Pro) | MOD 11KTL3-X2(Pro) | MOD 12KTL3-X2(Pro) | MOD 13KTL3-X2(Pro) | MOD 15KTL3-X2(Pro) |
|---|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Max. DC voltage                             | 1100V                               |                    |                    |                    |                    |                    |
| MPP voltage range                           | 140-1000V                           |                    |                    |                    |                    |                    |
| Full-load voltage range                     | 350-850V                            |                    | 400-850V           |                    | 500-850V           |                    |
| No. of MPP trackers                         | 2                                   |                    |                    |                    |                    |                    |
| No. of PV strings per MPP trackers          | 1/1                                 |                    |                    |                    |                    |                    |
| Max. input current per MPP trackers         | 20A/20A                             |                    |                    |                    |                    |                    |
| Max. short-circuit current per MPP trackers | 25A/25A                             |                    |                    |                    |                    |                    |
| AC rated power                              | 9kW                                 | 10kW               | 11kW               | 12kW               | 13kW               | 15kW               |
| Max. AC apparent power                      | 9.9kVA                              | 11kVA              | 12.1kVA            | 13.2kVA            | 14.3kVA            | 16.5kVA            |
| Nominal AC voltage                          | 3W/N/PE,220V/380V; 230V/400V        |                    |                    |                    |                    |                    |
| AC grid frequency                           | 50/60 Hz                            |                    |                    |                    |                    |                    |
| Max. output current                         | 15.0A                               | 16.0A              | 18.3A              | 20.0A              | 21.7A              | 25.0A              |
| Adjustable power factor                     | 0.8Leading ...0.8Lagging            |                    |                    |                    |                    |                    |
| Operating temperature range                 | -25°C ... +60°C<br>(>40°C Derating) |                    |                    |                    |                    |                    |
| Protection degree                           | IP66                                |                    |                    |                    |                    |                    |
| Software Version                            | DL1.0                               |                    |                    |                    |                    |                    |

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