

Certificate of Conformity

Certificate Number: CN-PVES-240476

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.

| | |
|---|---|
| Applicant: | Shenzhen Growatt New Energy Co., Ltd 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China |
| Product: | Hybrid Inverter & AC Coupled Inverter |
| Ratings & Principle Characteristics: | See appendix of Certificate of Conformity |
| Model: | MOD 3000TL3-HU, MOD 4000TL3-HU, MOD 5000TL3-HU, MOD 6000TL3-HU, MOD 7000TL3-HU, MOD 8000TL3-HU, MOD 9000TL3-HU, MOD 10KTL3-HU, MOD 11KTL3-HU, MOD 12KTL3-HU, MOD 13KTL3-HU, MOD 15KTL3-HU MOD 3000TL3-AU, MOD 4000TL3-AU, MOD 5000TL3-AU, MOD 6000TL3-AU, MOD 7000TL3-AU, MOD 8000TL3-AU, MOD 9000TL3-AU, MOD 10KTL3-AU, MOD 11KTL3-AU, MOD 12KTL3-AU, MOD 13KTL3-AU, MOD 15KTL3-AU MOD 6000TL3-HU-L, MOD 8000TL3-HU-L, MOD 10KTL3-HU-L |
| Brand Name<s>: | GROWATT |
| Product Complies with: | 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 IEC 62477-1:2022, EN IEC 62477-1:2023/AC:2024-04 Safety requirements for power electronic converter systems and equipment Part 1: General |
| Certificate Issuing Office Name & Address: | Intertek Testing Services Ltd. Shanghai West Area, 2 nd 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 |
| Test Report No.<s>: | 240621124GZU-002, 11 Oct 2024; 240621124GZU-003, 11 Oct 2024 240621124GZU-004, 11 Oct 2024 |

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 18 October 2024



PRD N° 306B

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APPENDIX: Certificate of Conformity

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| Model | MOD 3000TL3-HU | MOD 4000TL3-HU | MOD 5000TL3-HU | MOD 6000TL3-HU |
|---------------------------------------|-------------------------|----------------|----------------|----------------|
| PV | | | | |
| Max. DC input voltage | 1000Vdc | | | |
| MPPT voltage range | 140 – 1000Vdc | | | |
| PV maximum current | 20A/20A | | | |
| Max. PV Isc | 25A/25A | | | |
| DC battery | | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | | |
| Operating voltage range | 600Vdc ~ 980Vdc | | | |
| Max. operating current | 25A | 25A | 25A | 25A |
| Max. discharge power | 3kW | 4kW | 5kW | 6kW |
| Max. charge power | 9kW | 12kW | 15kW | 15kW |
| AC parameter | | | | |
| Rated input/output power | 6kW/3kW | 8kW/4kW | 10kW/5kW | 12kW/6kW |
| Max. input/output apparent power | 6kVA/3.3kVA | 8kVA/4.4kVA | 10kVA/5.5kVA | 12kVA/6.6kVA |
| Rated output voltage | 220V/380V, 230V/400V | | | |
| Rated output frequency | 50/60 Hz | | | |
| Max. input/output current | 9.1A/5A | 12.1A/6.7A | 15.2A/8.3A | 18.2A/10A |
| Rated power factor (with rated power) | >0.99 | | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Type of grid connection | 3W+N+PE/3W+PE | | | |
| AC output (backup) | | | | |
| Rated output voltage | 220/230Vac | | | |
| Nominal frequency | 50Hz/60Hz | | | |
| Maximum output current | 5.5A | 7.3A | 9.1A | 10.9A |
| Max. apparent power | 3.6kVA | 4.8kVA | 6kVA | 7.2kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Others | | | | |
| Ingress protection | IP66 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| Software version | DO1.0 | | | |

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| Model | MOD 7000TL3-HU | MOD 8000TL3-HU | MOD 9000TL3-HU | MOD 10KTL3-HU |
|---------------------------------------|-------------------------|------------------|------------------|-----------------|
| PV | | | | |
| Max. DC input voltage | 1000Vdc | | | |
| MPPT voltage range | 140 – 1000Vdc | | | |
| PV maximum current | 20A/20A | | | 20A/20A/20A |
| Max. PV Isc | 25A/25A | | | 25A/25A/25A |
| DC battery | | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | | |
| Operating voltage range | 600Vdc ~ 980Vdc | | | |
| Max. operating current | 25A | | | |
| Max. discharge power | 7kW | 8kW | 9kW | 10kW |
| Max. charge power | 15kW | 15kW | 15kW | 15kW |
| AC parameter | | | | |
| Rated input/output power | 14kW/ 7kW | 16kW/ 8kW | 18kW/ 9kW | 20kW/ 10kW |
| Max. input/output apparent power | 14kVA/ 7.7kVA | 16kVA/ 8.8kVA | 18kVA/ 9.9kVA | 20kVA/ 11kVA |
| Rated output voltage | 220V/380V 230V/400V | | | |
| Rated output frequency | 50/60 Hz | | | |
| Max. input/output current | 21.2A/ 11.7A | 24.2A/ 13.3A | 27.3A/ 15A | 30.3A/ 16.7A |
| Rated power factor (with rated power) | >0.99 | | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Type of grid connection | 3W+N+PE/3W+PE | | | |
| AC output (backup) | | | | |
| Rated output voltage | 220/230Vac | | | |
| Nominal frequency | 50Hz/60Hz | | | |
| Maximum output current | 12.7A | 14.5A | 16.4A | 18.2A |
| Max. apparent power | 8.4kVA | 9.6kVA | 10.8kVA | 12kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Others | | | | |
| Ingress protection | IP66 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| Software version | DO1.0 | | | |

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| Model | MOD 11KTL3-HU | MOD 12KTL3-HU | MOD 13KTL3-HU | MOD 15KTL3-HU |
|---------------------------------------|-------------------------|-------------------|-------------------|-------------------|
| PV | | | | |
| Max. DC input voltage | 1000Vdc | | | |
| MPPT voltage range | 140 – 1000Vdc | | | |
| PV maximum current | 20A/20A/20A | | | |
| Max. PV Isc | 25A/25A/25A | | | |
| DC battery | | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | | |
| Operating voltage range | 600Vdc ~ 980Vdc | | | |
| Max. operating current | 25A | | | |
| Max. discharge power | 11kW | 12kW | 13kW | 15kW |
| Max. charge power | 15kW | 15kW | 15kW | 15kW |
| AC parameter | | | | |
| Rated input/output power | 22kW/ 11kW | 24kW/ 12kW | 26kW/ 13kW | 30kW/ 15kW |
| Max. input/output apparent power | 22kVA/ 12.1kVA | 24kVA/ 13.2kVA | 26kVA/ 14.3kVA | 30kVA/ 16.5kVA |
| Rated output voltage | 220V/380V, 230V/400V | | | |
| Rated output frequency | 50/60 Hz | | | |
| Max. input/output current | 33.3A/18.3A | 36.4A/20A | 39.4A/21.7A | 45.5A/25A |
| Rated power factor (with rated power) | >0.99 | | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Type of grid connection | 3W+N+PE/3W+PE | | | |
| AC output (backup) | | | | |
| Rated output voltage | 220/230Vac | | | |
| Nominal frequency | 50Hz/60Hz | | | |
| Maximum output current | 20A | 21.8A | 23.6A | 27.3A |
| Max. apparent power | 13.2kVA | 14.4kVA | 15.6kVA | 18kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Others | | | | |
| Ingress protection | IP66 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| Software version | DO1.0 | | | |

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| Model | MOD 3000TL3-AU | MOD 4000TL3-AU | MOD 5000TL3-AU | MOD 6000TL3-AU |
|---------------------------------------|-------------------------|----------------|----------------|----------------|
| DC battery | | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | | |
| Operating voltage range | 600Vdc ~ 980Vdc | | | |
| Max. operating current | 5A | 6.7A | 8.3A | 10A |
| Max. discharge power | 3kW | 4kW | 5kW | 6kW |
| Max. charge power | 3kW | 4kW | 5kW | 6kW |
| AC parameter | | | | |
| Rated input/output power | 6kW/ 3kW | 8kW/ 4kW | 10kW/ 5kW | 12kW/ 6kW |
| Max. input/output apparent power | 6kVA/ 3kVA | 8kVA/ 4kVA | 10kVA/ 5kVA | 12kVA/ 6kVA |
| Rated output voltage | 220V/380V 230V/400V | | | |
| Rated output frequency | 50/60 Hz | | | |
| Max. input/output current | 9.1A/4.5A | 12.1A/6.1A | 15.2A/7.6A | 18.2A/9.1A |
| Rated power factor (with rated power) | >0.99 | | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Type of grid connection | 3W+N+PE/3W+PE | | | |
| AC output (backup) | | | | |
| Rated output voltage | 220/230Vac | | | |
| Nominal frequency | 50Hz/60Hz | | | |
| Maximum output current | 4.5A | 6.1A | 7.6A | 9.1A |
| Max. apparent power | 3kVA | 4kVA | 5kVA | 6kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Others | | | | |
| Ingress protection | IP66 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| Software version | DO1.0 | | | |

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| Model | MOD 7000TL3- AU | MOD 8000TL3- AU | MOD 9000TL3- AU | MOD 10KTL3- AU |
|---------------------------------------|-------------------------|--------------------|--------------------|-----------------|
| DC battery | | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | | |
| Operating voltage range | 600Vdc ~ 980Vdc | | | |
| Max. operating current | 11.7A | 13.3A | 15A | 16.7A |
| Max. discharge power | 7kW | 8kW | 9kW | 10kW |
| Max. charge power | 7kW | 8kW | 9kW | 10kW |
| AC parameter | | | | |
| Rated input/output power | 14kW/ 7kW | 16kW/ 8kW | 18kW/ 9kW | 20kW/ 10kW |
| Max. input/output apparent power | 14kVA/ 7kVA | 16kVA/ 8kVA | 18kVA/ 9kVA | 20kVA/ 10kVA |
| Rated output voltage | 220V/380V 230V/400V | | | |
| Rated output frequency | 50/60 Hz | | | |
| Max. input/output current | 21.2A/ 10.6A | 24.2A/ 12.1A | 27.3A/ 13.6A | 30.3A/ 15.2A |
| Rated power factor (with rated power) | >0.99 | | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Type of grid connection | 3W+N+PE/3W+PE | | | |
| AC output (backup) | | | | |
| Rated output voltage | 220/230Vac | | | |
| Nominal frequency | 50Hz/60Hz | | | |
| Maximum output current | 10.6A | 12.1A | 13.6A | 15.2A |
| Max. apparent power | 7kVA | 8kVA | 9kVA | 10kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Others | | | | |
| Ingress protection | IP66 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| Software version | DO1.0 | | | |

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| Model | MOD 11KTL3- AU | MOD 12KTL3- AU | MOD 13KTL3- AU | MOD 15KTL3- AU |
|---------------------------------------|-------------------------|-----------------|-----------------|-----------------|
| DC battery | | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | | |
| Operating voltage range | 600Vdc ~ 980Vdc | | | |
| Max. operating current | 18.3A | 20A | 21.7A | 25A |
| Max. discharge power | 11kW | 12kW | 13kW | 15kW |
| Max. charge power | 11kW | 12kW | 13kW | 15kW |
| AC parameter | | | | |
| Rated input/output power | 22kW/ 11kW | 24kW/ 12kW | 26kW/ 13kW | 30kW/ 15kW |
| Max. input/output apparent power | 22kVA/ 11kVA | 24kVA/ 12kVA | 26kVA/ 13kVA | 30kVA/ 15kVA |
| Rated output voltage | 220V/380V, 230V/400V | | | |
| Rated output frequency | 50/60 Hz | | | |
| Max. input/output current | 33.3A/ 16.7A | 36.4A/ 18.2A | 39.4A/ 19.7A | 45.5A/ 22.7A |
| Rated power factor (with rated power) | >0.99 | | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Type of grid connection | 3W+N+PE/3W+PE | | | |
| AC output (backup) | | | | |
| Rated output voltage | 220/230Vac | | | |
| Nominal frequency | 50Hz/60Hz | | | |
| Maximum output current | 16.7A | 18.2A | 19.7A | 22.7A |
| Max. apparent power | 11kVA | 12kVA | 13kVA | 15kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | | |
| Others | | | | |
| Ingress protection | IP66 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| Software version | DO1.0 | | | |

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| Model | MOD 6000TL3-HU-L | MOD 8000TL3-HU-L | MOD 10KTL3-HU-L |
|---------------------------------------|-------------------------|------------------|-----------------|
| PV | | | |
| Max. DC input voltage | 850Vdc | | |
| MPPT voltage range | 140 – 800Vdc | | |
| PV maximum current | 20A/20A/20A | | |
| Max. PV Isc | 25A/25A/25A | | |
| DC battery | | | |
| Compatible battery | APX 5.0-30.0P-S2 | | |
| Operating voltage range | 560 V ~ 850 V | | |
| Max. operating current | 26.8A | | |
| Max. discharge power | 6kW | 8kW | 10kW |
| Max. charge power | 15kW | 15kW | 15kW |
| AC parameter | | | |
| Rated input/output power | 9kW/6kW | 12kW/8kW | 15kW/10kW |
| Max. input/output apparent power | 9kVA/6kVA | 12kVA/8kVA | 15kVA/10kVA |
| Rated output voltage | 127V/220V, 133V/230V | | |
| Rated output frequency | 50/60 Hz | | |
| Max. input/output current | 23.6A/15.7A | 31.5A/21.0A | 39.4A/26.2A |
| Rated power factor (with rated power) | >0.99 | | |
| Power factor range | 0.8Leading ~ 0.8Lagging | | |
| Type of grid connection | 3W+PE/3W+N+PE | | |
| AC output (backup) | | | |
| Rated output voltage | 127/133Vac | | |
| Nominal frequency | 50Hz/60Hz | | |
| Maximum output current | 15.7A | 21.0A | 26.2A |
| Max. apparent power | 6kVA | 8kVA | 10kVA |
| Power factor range | 0.8Leading ~ 0.8Lagging | | |
| Others | | | |
| Ingress protection | IP66 | | |
| Protection class | Class I | | |
| Operating temperature range | -25°C - +60°C | | |
| Software version | DO1.0 | | |

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