

Certificate of Conformity

Certificate Number: CN-PV-210203

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 |
| Ratings & Principle Characteristics: | See appendix of Certificate of Conformity |
| Model: | Growatt SPH3000, Growatt SPH3600, Growatt SPH4000 Growatt SPH4600, Growatt SPH5000, Growatt SPH6000 SPH 3000TL BL-UP, SPH 3600TL BL-UP, SPH 4000TL BL-UP SPH 4600TL BL-UP, SPH 5000TL BL-UP, SPH 6000TL BL-UP |
| Brand Name<s>: | GROWATT |
| Tested according to: | France_UTE_C_15_712-1: July 2013 DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device Enedis-PRO-RES_10E_2020 (max(f)=51,5 Hz) Compliant with VFR2019 |
| Certificate Issuing Office Name & Address: | Intertek Testing Services Ltd. Shanghai West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China |
| Test Report No.<s>: | 210107100GZU-006 210107100GZU-007 |

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 09 Sep. 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-210203

| Model | Growatt SPH3000 SPH 3000TL BL-UP | Growatt SPH3600 SPH 3600TL BL-UP | Growatt SPH4000 SPH 4000TL BL-UP |
|---------------------------------------|--|---|---|
| PV Input data | | | |
| Max. PV Input Voltage | 550V | | |
| Max. PV current | 2*13.5 d.c.A | | |
| Max. PV Isc | 2*16.9 d.c.A | | |
| AC output/Input data | | | |
| Rated input / output power [W] | 3000/3000 | 3000/3680(for Model Growatt SPH3600) 3680/3680(for model SPH 3600TL BL-UP) | 3000/4000(for Model Growatt SPH4000) 4000/4000(for model SPH 3600TL BL-UP) |
| Rated Output apparent power | 3000VA | 3680VA | 4000VA |
| Nominal voltage | 230 a.c.V | | |
| Max. input/output current | 16/16 a.c.A | | 22/22 a.c.A |
| Nominal Frequency | 50 Hz | | |
| Power Factor range | 0.8 Leading ~ 0.8 Lagging | | |
| EPS output data | | | |
| Max. output power | 3000VA (for model Growatt SPH3000, Growatt SPH3600, Growatt SPH4000, SPH 3000TL BL-UP);3680VA (for model SPH 3600TL BL-UP); 4000VA (for model SPH 4000TL BL-UP) | | |
| Nominal AC output voltage | 230 a.c.A | | |
| Nominal AC Frequency | 50Hz | | |
| Battery data | | | |
| Battery voltage range | 42 – 59 d.c.V | | |
| Max. charging and discharging current | 66 d.c.A(only for Growatt SPH3000, Growatt SPH3600, Growatt SPH4000, SPH 3000TL BL-UP) 75 d.c.A (only for, SPH 3600TL BL-UP) 85 d.c.A(only for SPH 4000TL BL-UP) | | |
| Type of battery | Lithium/Lead-acid | | |
| Ingress Protection | IP65 | | |
| Protective Class | Class I | | |
| Operating temperature range | -25°C - +60°C | | |
| FW Version | RA1.0 | | |

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APPENDIX: Certificate of Conformity

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| Model | Growatt SPH4600 SPH 4600TL BL-UP | Growatt SPH5000 SPH 5000TL BL-UP | Growatt SPH6000 SPH 6000TL BL-UP |
|---------------------------------------|---|---|---|
| PV Input data | | | |
| Max. PV Input Voltage | 550V | | |
| Max. PV current | 2*13.5 d.c.A | | |
| Max. PV Isc | 2*16.9 d.c.A | | |
| AC output/Input data | | | |
| Rated input / output power [W] | 3000/4600(for Model Growatt SPH4600) 4600/4600(for model SPH 4600TL BL-UP) | 3000/5000(for Model Growatt SPH5000) 5000/5000(for model SPH 5000TL BL-UP) | 3000/6000(for Model Growatt SPH6000) 6000/6000(for model SPH 6000TL BL-UP) |
| Rated Output apparent power | 4600VA | 5000VA | 6000VA |
| Nominal voltage | 230 a.c.V | | |
| Max. input/output current | 22/22 a.c.A | | 27/27 a.c.A |
| Nominal Frequency | 50 Hz | | |
| Power Factor range | 0.8 Leading ~ 0.8 Lagging | | |
| EPS output data | | | |
| Max. output power | 3000VA (for model Growatt SPH4600, Growatt SPH5000, Growatt SPH6000); 4000VA (for model SPH 4600TL BL-UP, SPH 5000TL BL-UP, SPH 6000TL BL-UP) | | |
| Nominal AC output voltage | 230 a.c.A | | |
| Nominal AC Frequency | 50Hz | | |
| Battery data | | | |
| Battery voltage range | 42 – 59 d.c.V | | |
| Max. charging and discharging current | 66 d.c.A(only for Growatt SPH4600, Growatt SPH5000, Growatt SPH6000); 85 d.c.A(only for SPH 4600TL BL-UP, SPH 5000TL BL-UP, SPH 6000TL BL-UP) | | |
| Type of battery | Lithium/Lead-acid | | |
| Ingress Protection | IP65 | | |
| Protective Class | Class I | | |
| Operating temperature range | -25°C - +60°C | | |
| FW Version | RA1.0 | | |

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