Test Verification of Conformity

Verification Number: 260618050GZU-VOC001

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to 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 <them>.

This document can be used in support of a claim in meeting relevant EU legislation and mandatory Conformity Marking. And in accordance with EU law, the claim is the sole obligation of the Manufacturer/ Importer

Applicant Name & Address:	Shenzhen Growatt New Energy Co., Ltd Room 101, Building 1, Smart Green Energy Industrial Park, Buildings 1 to 7, No. 291 Yunchang Road, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Product Description:	Hybrid inverter
Ratings & Principal Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	MINA XkTL-HU-Y (X, Y are variables. X=3, 3.6, 4.2,4.6, 5, 5.75, 6, 8, 10; Y=1, 2, 3, 4, 5, 6, 7) MINA XkTL-HU (X is variables. X=3, 3.6, 4.2,4.6, 5, 5.75, 6, 8, 10)
Brand Names:	GROWATT
Specification<s>/Standards:	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch. Warehouse (C2) -1, No. 100, Taixin Road, Ningxi Street, Zeng-cheng District, Guangzhou, Guangdong, China.
Date of Tests:	12 Sep. 2026 to 15 Oct. 2026
Test Report Number(s):	260618050GZC-001, 20 Oct, 2026 260618050GZC-002, 20 Oct, 2026

Additional information in Appendix.

Jason Fu

Signature

Name: Jason Fu
Position: Manager
Date: 20 Oct. 2026

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 260618050GZU-VOC001.

Model	MINA 3kTL-HU-Y, MINA 3kTL-HU	MINA 3.6kTL-HU-Y, MINA 3.6kTL-HU	MINA 4.2kTL-HU-Y, MINA 4.2kTL-HU	MINA 4.6kTL-HU-Y, MINA 4.6kTL-HU
PV input				
VMAX PV [Vdc]	600			
ISC PV [A]	25/25/25 For Inverter: 26/26/26			
MPP Voltage Range VMPP [Vdc]	40-550			
Full load MPP Voltage Range VMPP [Vdc]	55-500	65-500	75-500	85-500
Max. Input Current IMAX [A]	20/20/20			
Number of MPPT trackers	3			
Overvoltage Category (OVC)	II			
AC input				
Rated Input Voltage [Vac]	230			
Rated Input Frequency Fn [Hz]	50/60			
Max. Input Current Imax [A]	13	15.7	18.3	20
Battery				
Rated input voltage [V]	400			
Input voltage range [V]	350-550			
Max. charge/discharge current [A]	30/9	30/10.8	30/12.6	30/13.8
Battery Type	Li-ion or Lead-acid			
Note: Y are variables, Y=1, 2, 3, 4, 5, 6, 7.				

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 260618050GZU -VOC001.

Model	MINA 3kTL-HU -Y, MINA 3kTL-HU	MINA 3.6kTL-HU-Y, MINA 3.6kTL-HU	MINA 4.2kTL-HU-Y, MINA 4.2kTL-HU	MINA 4.6kTL-HU-Y, MINA 4.6kTL-HU
AC output				
Rated Output Voltage [Vac]	230			
Rated Output Frequency Fn [Hz]	50/60			
Rated Active Power Pn [W]	3000	3600	4200	4600
Max. Active Power PEmax [W]	3000	3600	4200	4600
Rated Apparent power Sn [VA]	3000	3600	4200	4600
Max. Apparent power SEmax [VA]	3000	3600	4200	4600
Max. Output Current Imax [A]	13	15.7	18.3	20
Power Factor Range cosϕ [λ]	0.80un...0.80ov			
Overvoltage Category (OVC)	III			
System				
Hardware version	V1.0			
Software version	AN1.0			
Type of inverter	Non-isolated			
Type of NS Protection	Integrated			
Noise emission (dB)	≤35			
Protective Class	Class I			
Enclosure Protection (IP)	IP66			
Operating Temperature Range [ºC]	-20 to +55 (derating >45) For Inverter: -30 to +60 (derating >45)			
Pollution degree (PD)	PD3(External), PD2(Internal)			
Altitude [m]	4000			
Size [mm] Width* Height*Depth	For 5kwh Pack Use: Inverter: 590*345*255 Battery module: 590*265*255 For 7kwh Pack Use: Inverter: 740*345*255 Battery module: 740*265*255			
Weight [kg]	For 7kwh Pack Use: Inverter: 28.5 Battery module: 56.8 For 5kwh Pack Use: Inverter: 27.2 Battery module: 45			
Note: Y are variables, Y=1, 2, 3, 4, 5, 6, 7.				

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 260618050GZU-VOC001.

Model	MINA 5kTL-HU-Y, MINA 5kTL-HU	MINA 5.75kTL-HU-Y, MINA 5.75kTL-HU	MINA 6kTL-HU-Y, MINA 6kTL-HU	MINA 8kTL-HU-Y, MINA 8kTL-HU	MINA 10kTL-HU-Y, MINA 10kTL-HU
PV input					
VMAX PV [Vdc]	600				
ISC PV [A]	25/25/25 For Inverter: 26/26/26				
MPP Voltage Range VMPP [Vdc]	40-550				
Full load MPP Voltage Range VMPP [Vdc]	90-500	105-500	110-500	145-500	180-500
Max. Input Current IMAX [A]	20/20/20				
Number of MPPT trackers	3				
Overvoltage Category (OVC)	II				
AC input					
Rated Input Voltage [Vac]	230				
Rated Input Frequency Fn [Hz]	50/60				
Max. Input Current Imax [A]	21.7	25	26	34.8	43.5
Battery					
Rated input voltage [V]	400				
Input voltage range [V]	350-550				
Max. charge/discharge current [A]	30/15	30/17.5	30/18	30/24	30/30
Battery Type	Li-ion or Lead-acid				
Note: Y are variables, Y=1, 2, 3, 4, 5, 6, 7.					

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Model	MINA 5kTL-HU-Y, MINA 5kTL-HU	MINA 5.75kTL-HU-Y, MINA 5.75kTL-HU	MINA 6kTL-HU-Y, MINA 6kTL-HU	MINA 8kTL-HU-Y, MINA 8kTL-HU	MINA 10kTL-HU-Y, MINA 10kTL-HU
AC output					
Rated Output Voltage [Vac]	230				
Rated Output Frequency Fn [Hz]	50/60				
Rated Active Power Pn [W]	5000	5750	6000	8000	9990
Max. Active Power PEmax [W]	5000	5750	6000	8000	9990
Rated Apparent power Sn [VA]	5000	5750	6000	8000	9990
Max. Apparent power SEmax [VA]	5000	5750	6000	8000	9990
Max. Output Current Imax [A]	21.7	25	26.0	34.8	43.5
Power Factor Range cosϕ [λ]	0.80un...0.80ov				
Overvoltage Category (OVC)	III				
System					
Hardware version	V1.0				
Software version	AN1.0				
Type of inverter	Non-isolated				
Type of NS Protection	Integrated				
Noise emission (dB)	≤35				
Protective Class	Class I				
Enclosure Protection (IP)	IP66				
Operating Temperature Range [ºC]	-20 to +55 (derating >45) For Inverter: -30 to +60 (derating >45)				
Pollution degree (PD)	PD3(External), PD2(Internal)				
Altitude [m]	4000				
Size [mm] Width* Height*Depth	For 5kwh Pack Use: Inverter: 590*345*255 Battery module: 590*265*255 For 7kwh Pack Use: Inverter: 740*345*255 Battery module: 740*265*255				
Weight [kg]	For 7kwh Pack Use: Inverter: 28.5 Battery module: 56.8 For 5kwh Pack Use: Inverter: 27.2 Battery module: 45				
Note: Y are variables, Y=1, 2, 3, 4, 5, 6, 7.					

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