Test Verification of Conformity

Verification Number: 2606B1174SHA-V1

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>.

Applicant Name & Address:	SICHUAN GRANDTECH NEW ENERGY TECHNOLOGY CO LTD Room 803, No.77, Shunjiang Sec. Wuhou Av. Wuhou District, Chengdu City, Sichuan, China
Product Description:	Solar Hybrid Inverter
Ratings & Principle Characteristics:	See Appendix for details
Models/Type References:	GTHB51 followed by 150, 160 or 180; followed by US2P-02.
Brand Name:	GRANDTECH
Relevant Standards:	47CFR Part 15 (2024) ANSI C63.4 (2014) +A1 (2017)
Verification Issuing Office Name & Address:	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of test:	2026-01-30 to 2026-03-16
Test Report Number(s):	2606B1174SHA-001

Signature:

Name: Max Jin
Position: General Manager
Date: 2026-07-26

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2606B1174SHA-V1.

Specifications table			
Model	**GTHB51150US2P-02**	**GTHB51160US2P-02**	**GTHB51180US2P-02**
PV input			
Vmax PV (Vdc) (absolute Max.)	600		
Isc PV (absolute Max.) (A)	63*3		
Max. PV input current / strings (A)	42*3		
Number MPP trackers	3		
Number input strings	2+2+2		
MPPT voltage range (Vdc)	120~500		
P pv Max(kW)	9.6*3		
Battery (charge/discharge)			
Battery type	Li-ion/Lead-acid		
Battery Norma Voltage (Range) (Vdc)	48V (40-60V) or (Field adapt battery voltage range)		
Max charge/discharge Current(A)	320	340	380
Max charge/discharge Power(kW)	15/15	16/16	18/18
AC Grid (input and output)			
Normal AC Voltage (VAC)	240/208 (Split Phase)		
Frequency (Hz)	60		
Max. cont. input/output current (A)	68.75	73.37	82.5
Max. cont. input/output Power (kW)	15@240V 13.6@208V	16@240V 14.5@208V	18@240V 16.3@208V
Max. cont. Apparent Power (kVA)	16.5@240V 14.96@208V	17.6@240V 15.95@208V	19.8@240V 17.93@208V
Power factor(adjustable)	1.0(-0.8~ +0.8)		
AC Load output (stand alone)			
Normal Voltage (VAC)	240/208 (Split Phase)		
Frequency (Hz)	60		
Nominal Current(A)	62.5	66.7	75
Max. cont. Power (kW)	15@240V 13.6@208V	16@240V 14.5@208V	18@240V 16.3@208V
Max. cont. Apparent Power (kVA)	16.5@240V 14.96@208V	17.6@240V 15.95@208V	19.8@240V 17.93@208V
Power factor(rated)	1.0		
Others			
Max output fault current and duration (ac)	200A@10ms		
Max output overcurrent protection (amps)	140		
Ingress protection (IP)	NEMA 4X		
Protective class	Class I		
Temperature (℃)	-40~140°F, >113°F derated		
Inverter Isolation	Non-isolated		
Overvoltage category	OVC III (AC), OVC II (DC)		
Firmware Version	V3		

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