Certificate of Conformity

Certificate Number: CN-PV-230680

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:	Huizhou Epever Technology Co., Ltd. No.103, Dongxing Rd,Chenjiang Street, Zhongkai High-Tech Zone, Huizhou, China
Product:	PV Hybrid inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	EP-HY-3.6-G3, EP-HY-5.0-G3
Brand Name<s>:	EPEVER
Product Complies with:	EN 50549-1: 2019 Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including Type B Type approval for Type B
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 Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	231011062GZU-003, 24 November 2023

According to Annex H of the standard EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided, that all settings as provided by the DSO and the responsible party are complied with.
Additional information in Appendix.

Signature

Certification Manager: Grady Ye
Date: 01 December 2023

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PRD N° 306B

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230680

Model	EP-HY-3.6-G3	EP-HY-5.0-G3
Input Data (PV)		
Max. PV array open-circuit Voltage	600Vd.c	
Max. total PV array short-circuit circuit	2*20Ad.c	
Max. operating PV input current	2*15Ad.c	
PV input operating voltage range	100~600Vd.c	
MPPT input operating voltage range	120~550Vd.c	
Number of independent MPP input	2	
Output Data (AC)		
Nominal AC output Power	3600W	5000W
AC nominal voltage	230Va.c	
AC grid frequency	50Hz	
Max. output current	16Aa.c	22.8Aa.c
Power factor (Full load)	>0.99	
Backup terminal parameter (AC)		
Nominal AC output Power	3600W	
AC nominal voltage	230Va.c	
AC grid frequency	50Hz	
Max. output current	16Aa.c	
Battery		
Battery Type	Lead-acid or Li-ion	
Normal voltage	48V	
Operating voltage range	46.7~57.6V	
Max. charging current	65Ad.c	
Max. discharging current	81Ad.c	
Max. charging Power	3600W	
Max. discharging Power	3600W	
General Data		
IP Degree	IP65	
Protect class	I	
Operation temp.	-25℃ to +60℃	
Software version	SB1.0	

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230680

Interface protection settings according to EN 50549-1:2019			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 <]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 >]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59>>]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 <]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 >]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage		50%-120% adjustable, 85%Un≤ U≤1.10Un default	
Starting to generate electrical power		47Hz – 52Hz adjustable, 49.5Hz≤ U≤50.1Hz default	
Reconnection settings for frequency		47Hz – 52Hz adjustable, 49.5Hz≤ U≤50.2Hz default	
Observation time		10s-60s adjustable, 60s default	
Active power increase gradient		6%-3000%/min adjustable, 10%/min default	
Permanent DC injection		0.5% of rated inverter output	
Loss of mains according to EN 62116		Within 2s	