Certificate of Conformity

Certificate Number: CN-PVES-240329

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:	Shandong Dahai New Energy Development Co. LTD North of Qi Road, west of Xikang Road, Guangrao Economic Development Zone, Dongying City, Shandong Province, China
Product:	Hybrid Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	HyS3K, HyS3.6K, HyS4K, HyS5K
Brand Name<s>:	DAHAI
Product Complies with:	IEC 61683:1999 (First Edition)
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>:	2406B0981SHA-001

Additional information in Appendix.

Signature

Certification Manager: Qiao Qiao
Date: 01 August 2024

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 306B

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-PVES-240329

Ratings & Principle Characteristics:

Specifications table				
Model	HyS3K	HyS3.6K	HyS4K	HyS5K
PV input				
Vmax PV (Vdc) (absolute Max.)	500			
Isc PV (absolute Max.) (A)	22.5	22.5*2	22.5*2	22.5*2
Max. PV input current / strings (A)	18	18*2	18*2	18*2
Number MPP trackers	1	2	2	2
Number input strings	1	1/1	1/1	1/1
PV Input voltage range (Vdc)	100~500			
MPPT Range (Vdc)	150~450			
Vdc range @ full power (Vdc)	240~425	240~425	240~425	240~425
Battery (charge/discharge***)***				
Battery type	Li-ion/Lead-acid			
Battery Norma Voltage (Range) (Vdc)	48V (40-60V)			
Max charge/discharge Current(A)	75	90	100	120
Max charge/discharge Power(kW)	3.3	3.96	4.4	5.5
AC Grid (input and output)				
Normal AC Voltage (VAC)	230(single phase)			
Frequency (Hz)	50			
Max. cont. input/output current (A)	15	18	20	25
Max. cont. input/output Power (kW)	3.3	3.96	4.4	5.5
Max. cont. Apparent Power (kVA)	3.3	3.96	4.4	5.5
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand alone)				
Normal Voltage (VAC)	230(single phase)			
Frequency (Hz)	50			
Nominal Current(A)	15	18	20	25
Max. cont. Power (kW)	3	3.6	4	5
Overload Capability (off grid)	>200% for 15 sec			
Output Power Factor(off grid)	1.0			
Output Current Harmonic Distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	☒Non-isolated PV- AC ☐High frequency isolated(Battery Side)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Dimensions, D*W*H (mm)	198*427*554	198*427*554	198*427*554	198*427*554
Weight（kg）	20	20	20	20

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