

Certificate of Conformity

Registered No.:

COCVP04042/22E-06

File reference

PVP04042/22E-09

Test report No.

TRPVP04042/22E/09

Date of issue

2023-12-27

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Hiconics Eco-energy Drive Technology Co., Ltd.**
No.3 Boxing 2nd Road, Beijing Economic and Technological
Development Zone, 100176 Beijing, PEOPLE'S REPUBLIC OF CHINA

Manufacturer: **Hiconics Eco-energy Drive Technology Co., Ltd.**
No.3 Boxing 2nd Road, Beijing Economic and Technological
Development Zone, 100176 Beijing, PEOPLE'S REPUBLIC OF CHINA

Factory : **Hiconics Eco-energy Drive Technology Co., Ltd.**
No.3 Boxing 2nd Road, Beijing Economic and Technological
Development Zone, 100176 Beijing, PEOPLE'S REPUBLIC OF CHINA

Product: HYBRID INVERTER

Type designation: HEC2-S3.8Hr2, EC2-S5.0Hr2, HEC2-S6.0Hr2

Type of equipment: ☒ Interface device
☒ Interface protection
☒ Static conversion device
☐ Rotary generation device
Remark: The device is below 11.08kVA.

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): CEI 0-21:2019-04, CEI 0-21; V1:2020-12, CEI 0-21:2022, CEI 0-21;
V1:2022-11 "Reference technical rules for the connection of active and
passive users to the LV electrical Utilities"
See test report for detailed information.

Certification body: **TÜV NORD (HANGZHOU) CO., LTD.**
Room B409, Building 1, No. 9, Jiuhuan Road, Shangcheng District,
Hangzhou City, Zhejiang Province, 310019, P.R. China
Accredited by CNAS according to ISO/IEC 17065:2012,



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
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P.R. China

certificate no. CNAS C183-P.

Testing laboratory:

Dongguan BALUN Testing Technology Co., Ltd.

Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China

Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Conclusion:

After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21:2019-04, CEI 0-21; V1:2020-12, CEI 0-21:2022, CEI 0-21; V1:2022-11.

☒ ISO 9001 certificate:

Certificate no. 02023Q0751R2M, issued by Beijing ZhongDaHuaYuan Certification Center Co., Ltd.

☒ Test report of CEI 0-21:2019-04, CEI 0-21; V1:2020-12, CEI 0-21:2022, CEI 0-21; V1:2022-11:

Report no. BL-DG2380133-201, issued by Dongguan BALUN Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



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Description of product(s):

Model types:	HEC2-S3.8Hr2	HEC2-S5.0Hr2	HEC2-S6.0Hr2
General information			
Firmware:	V126.280.0.0.0.0		
PV input			
Vmax PV [V d.c.]:	600		
Mpp voltage range [V d.c.]:	100 - 480		
Isc PV [A d.c.]:	18/18		
Max. input current [A d.c.]:	15/15		
Overvoltage category (OVC):	II		
Battery input			
Battery Type	Li-ion		
Voltage range [Vd.c.]	85-400		
Max. Charge Current [Ad.c.]	25		
Max. Discharge Current [Ad.c.]	25		
Overvoltage category (OVC):	II		
AC output (Grid Side& Off Grid) parameters			
Rated output voltage [V a.c.]:	230		
Raged output frequency [Hz]:	50/60		
Rated output power [W]:	3800	5000	6000
Max. apparent power [VA]:	3800	5000	6000
Max. output current [A a.c.]:	16.5	21.8	26.1
Power factor cosφ [λ]:	0.8 leading ... 1 ... 0.8 lagging		
Overvoltage category (OVC):	III		



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Page 3 of 4

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Version 1.0

Remark: The inverters listed above may be installed with the following batteries:

Manufacturer:	Hiconics Eco-energy Drive Technology Co., Ltd.		
Accumulator Model / Battery Model:	HEC2-BHP50r2	HEC2-BHP100r2	HEC2-BHP150r2
Capacity of each battery module (kWh)	5.1	10.2	15.3
Number(s) of battery (HEC2-SP50r2) modules recommended by the manufacturer	1	2	3
Accumulator Model / Battery Model:	HEC2-BHP200r2-A	HEC2-BHP300r2	--
Capacity of each battery module (kWh)	20.4	30.6	--
Number(s) of battery (HEC2-SP50r2) modules recommended by the manufacturer	4	6	--
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.			



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Page 4 of 4

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