

Certificate of Conformity

Registered No.:

COC PVP04157/23B-02

File reference
PVP04157/23B-03

Test report No.
TRPVP04157/23B/03

Date of issue
2023-08-08

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: **Xiamen Kehua Digital Energy Tech Co., Ltd.**
Room 208-38, Hengye Building, No. 100 Xiangxing Road, Torch High-tech Zone (Xiang'an) Industrial Zone, Xiamen, China

Manufacturer: **Xiamen Kehua Digital Energy Tech Co., Ltd.**
Room 208-38, Hengye Building, No. 100 Xiangxing Road, Torch High-tech Zone (Xiang'an) Industrial Zone, Xiamen, China

Factory: **Zhangzhou Kehua Electric Technology Co., Ltd.**
No.11, Jinxing Road, Xiangcheng District, Zhangzhou City, Fujian Province, China.

Product: PV Grid-tied Inverter

Type designation: SPI75K-B, SPI75K-B PLUS, SPI80K-B, SPI80K-B PLUS, SPI90K-B, SPI90K-B PLUS, SPI100K-B, SPI100K-B PLUS, SPI110K-B, SPI110K-B PLUS, SPI125K-B, SPI125K-B PLUS, SPI136K-BHV, SPI150K-BHV

Three-phase, Firmware version: V1.0

Type of equipment:

- ☐ Interface device
- ☐ Interface protection
- ☒ Static conversion device
- ☐ Rotary generation device

Remark: The device is for plants of each power.

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): CEI 0-16:2019-04, CEI 0-16;V1:2020-12,
CEI 0-16:2022-03, CEI 0-16;V1:2022-11
See test report for detailed information.



Renewable Energy

BOS-T-016 COC



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产品
PRODUCT
CNAS C183-P

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Certification body:**TÜV NORD (HANGZHOU) CO., LTD.**

Room B409, Building 1, No. 9, Jiuahuan Road, Shangcheng District,
Hangzhou City, Zhejiang Province, 310019, P.R. China

Accredited by CNAS according to ISO/IEC 17065:2012, 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 0-16:2019-04, CEI 0-
16;V1:2020-12, CEI 0-16:2022-03, CEI 0-16;V1:2022-11

☒ ISO 9001 certificate:

Certificate no. 469539-2021-AQ-RGC-RvA, issued by DNV – Business
Assurance

☒ Test report of CEI 0-16:2019-04, CEI 0-16;V1:2020-12, CEI 0-
16:2022-03, CEI 0-16;V1:2022-11

Report no. BL-DG2360104-201, issued by Dongguan BALUN Testing
Technology Co., Ltd., accredited by CNAS according to ISO/IEC
17025:2017, certificate no. CNAS L14701

☒ Test report of EMC:

Report no. BL-DG2370622-401, issued by Dongguan BALUN Testing
Technology Co., Ltd., accredited by CNAS according to ISO/IEC
17025:2017, certificate no. CNAS L14701

Report no. J23-248-WT-01 issued by Shanghai Inspection and Testing
Institute of Instruments and Automation Systems Co., Ltd., accredited by
CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L0130

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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Version 1.4

Description of product(s):

PV Grid-tied Inverter				
Model or Type designation	SPI75K-B	SPI75K-B PLUS	SPI80K-B	SPI80K-B PLUS
PV input parameters:				
V _{MAX} PV [Vd.c.]	1100			
MPP Voltage Range [Vd.c.]	200-1000			
MPP Full Load Voltage Range [Vd.c.]	500-850			
Max. PV Input Current [Ad.c.]	9*30	6*40	9*30	6*40
DC Short-circuit current [Ad.c.]	9*50	6*50	9*50	6*50
AC output (Grid Side) parameters:				
Rated Output Voltage [Va.c.]	230/400Vac, 3W+N+PE			
Rated Output Frequency [Hz]	50/ 60			
Rated Output Power [kW]	75		80	
Max. Apparent Power [kVA]	75		88	
Max. Output Current [Aa.c.]	108.3		127	
Power Factor cosφ [λ]	0.8 leading – 0.8 lagging			
Others:				
Protective Class	Class I			
Inverter Topology	Non-isolated			
Operation Temperature Range	-35~60℃			
Ingress Protection	IP66			
Overvoltage-Category	DC(PV) II, AC(Main) III			

PV Grid-tied Inverter				
Model or Type designation	SPI90K-B	SPI90K-B PLUS	SPI100K-B	SPI100K-B PLUS
PV input parameters:				
V _{MAX} PV [Vd.c.]	1100			
MPP Voltage Range [Vd.c.]	200-1000			
MPP Full Load Voltage Range [Vd.c.]	500-850			
Max. PV Input Current [Ad.c.]	9*30	6*40	9*30	6*40
DC Short-circuit current [Ad.c.]	9*50	6*50	9*50	6*50
AC output (Grid Side) parameters:				
Rated Output Voltage [Va.c.]	230/400Vac, 3W+N+PE			



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Rated Output Frequency [Hz]	50/ 60	
Rated Output Power [kW]	90	100
Max. Apparent Power [kVA]	99	110
Max. Output Current [Aa.c.]	142.9	158.8
Power Factor cosφ [λ]	0.8 leading – 0.8 lagging	
Others:		
Protective Class	Class I	
Inverter Topology	Non-isolated	
Operation Temperature Range	-35~60°C	
Ingress Protection	IP66	
Overvoltage-Category	DC(PV) II, AC(Main) III	

PV Grid-tied Inverter				
Model or Type designation	SPI110K-B	SPI110K-B PLUS	SPI125K-B	SPI125K-B PLUS
PV input parameters:				
V _{MAX} PV [Vd.c.]	1100			
MPP Voltage Range [Vd.c.]	200-1000			
MPP Full Load Voltage Range [Vd.c.]	500-850			
Max. PV Input Current [Ad.c.]	9*30	6*40	9*30	6*40
DC Short-circuit current [Ad.c.]	9*50	6*50	9*50	6*50
AC output (Grid Side) parameters:				
Rated Output Voltage [Va.c.]	230/400Vac, 3W+N+PE			
Rated Output Frequency [Hz]	50/ 60			
Rated Output Power [kW]	110		125	
Max. Apparent Power [kVA]	121		137.5	
Max. Output Current [Aa.c.]	174.7		198.5	
Power Factor cosφ [λ]	0.8 leading – 0.8 lagging			
Others:				
Protective Class	Class I			
Inverter Topology	Non-isolated			
Operation Temperature Range	-35~60°C			
Ingress Protection	IP66			
Overvoltage-Category	DC(PV) II, AC(Main) III			



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PV Grid-tied Inverter				
Model or Type designation	SPI136K-BHV	SPI136K-BHV	SPI150K-BHV	SPI150K-BHV
PV input parameters:				
V _{MAX} PV [Vd.c.]	1100			
MPP Voltage Range [Vd.c.]	200-1000			
MPP Rated Voltage [Vd.c.]	780			
Max. PV Input Current [Ad.c.]	10*30	6*40	10*30	6*40
DC Short-circuit current [Ad.c.]	10*50	6*50	10*50	6*50
AC output (Grid Side) parameters:				
Rated Output Voltage [Va.c.]	310/540, 3W+PE			
Rated Output Frequency [Hz]	50/60			
Rated Output Power [kW]	136		150	
Max. Apparent Power [kVA]	149.6		165	
Max. Output Current [Aa.c.]	159.9		176.4	
Power Factor cosφ [λ]	0.8 leading ~ 0.8 lagging			
Others:				
Protective Class	Class I			
Inverter Topology	Non-isolated			
Operation Temperature Range	-35 ~ 60°C			
Ingress Protection	IP66			
Overvoltage-Category	DC II, AC III			