

CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the 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

comply to the essential requirements of the above mentioned European Directive and the following standards,
taking into account the German national deviations:

Product(s): PV Grid-tied Inverter

Model type(s): 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

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification program:	P33-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	EN 62109-1:2010; EN 62109-2:2011
Registered no.:	44 799 23 406749 - 222
Report no.:	492012610.001
File no.:	PVP04157/23B-02



TÜV NORD CERT GmbH
Certification Body
Balance of System (BOS) for Photovoltaics

Essen, 2023-08-01

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

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Please also pay attention to the information stated overleaf.

 The CE marking may be affixed on the product if all relevant and effective Directives are complied with. 

ANNEX

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to Certificate registration no. 44 799 23 406749 - 222

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 [VA]	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			



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Overvoltage-Category	DC(PV) II, AC(Main) III
Software version	V1.00
Hardware version	V1.0

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			
Rated Output Frequency [Hz]	50/ 60			
Rated Output Power [kW]	90		100	
Max. Apparent Power [VA]	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			



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Inverter Topology	Non-isolated
Operation Temperature Range	-35~60°C
Ingress Protection	IP66
Overvoltage-Category	DC(PV) II, AC(Main) III
Software version	V1.00
Hardware version	V1.0

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 [VA]	121		137.5	
Max. Output Current [Aa.c.]	174.7		198.5	



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Power Factor $\cos\phi$ [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
Software version	V1.00
Hardware version	V1.0

PV Grid-tied Inverter				
Model or Type designation	SPI136K-BHV		SPI150K-BHV	
PV input parameters:				
V _{MAX} PV [Vd.c.]	1100			
MPP Voltage Range [Vd.c.]	200-1000			
MPP Full Load Voltage Range [Vd.c.]	600-850			
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.]	310/540Vac, 3W +PE			
Rated Output Frequency [Hz]	50/ 60			



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Rated Output Power [kW]	136	150
Max. Apparent Power [VA]	149.6	165
Max. Output Current [Aa.c.]	159.9	176.4
Power Factor cosφ [λ]	1 (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	
Software version	V1.00	
Hardware version	V1.0	

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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