

CERTIFICATE

Xiamen Kehua Digital Energy Tech Co., Ltd.

Room 208-38, Hengye Building, No. 100 Xiangxing Road, Torch
High-tech Zone (Xiangan) Industrial Zone, Xiamen, China

is authorized to provide the product(s) mentioned below with the mark as illustrated:



Description of product(s) (details see Annex 2):

PV Grid-tied Inverter

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned below and found in compliance with the requirements of below specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Certification program:	P33-VA-01 Rev. 02 / 04.20	
Certification fundamental(s):	IEC 62109-1:2010; IEC 62109-2:2011	
Registered no.:	44 780 23 406749 - 241	
Manufacturer and factory(-ies):	See Annex 1	
Report no.:	492012610.001	Valid from: 2023-08-01
File no.:	PVP04157/23B-02	Valid until: 2028-07-31



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



Essen, 2023-08-01

ANNEX

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to Certificate registration no. 44 780 23 406749 - 241

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(-ies):

Factory :

ZHANGZHOU KEHUA ELECTRIC TECHNOLOGY CO., LTD.

NO. 11, JINXING ROAD, XIANGCHENG DISTRICT

ZHANGZHOU CITY, FUJIAN PROVINCE, 363000, CHINA

Factory inspection report no.: 862010484.004

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A blue ink signature, likely of a representative of TÜV NORD CERT GmbH.

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Certification Body

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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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