

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 (Xiangan) 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):	SPI8K-B X2, SPI10K-B X2, SPI12K-B X2, SPI15K-B X2, SPI17K-B X2, SPI20K-B X2 SPI23K-B X2, SPI25K-B X2P, SPI25K-B X2

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 - 385
Report no.:	492012074.002
File no.:	PVP05054/23B-04

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



Essen, 2023-11-30

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

www.tuev-nord-cert.de

prodcert@tuev-nord.de

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

Annex 1, Page 1 of 4

to Certificate registration no. 44 799 23 406749 - 385

Description of product(s):

PV Grid-tied Inverter			
Model or Type designation	SPI8K-B X2	SPI10K-B X2	SPI12K-B X2
PV input parameters:			
Max. Input PV Voltage [Vd.c.]	1100		
MPPT Voltage Range [Vd.c.]	180-1100		
Max. PV Input Current [Ad.c.]	2*15	2*15	2*15
PV Short-circuit current [Ad.c.]	2*18.75	2*18.75	2*18.75
AC output (Grid Side) parameters:			
Rated Output Voltage [Va.c.]	400Vac, 3W+N+PE		
Rated Output Frequency [Hz]	50/ 60		
Rated Output Power [W]	8000	10000	12000
Max. Apparent Power [VA]	8800	11000	13200
Max. Output Current [Aa.c.]	12.7	15.9	19.1
Power Factor cosφ [λ]	>0.99(±0.8)		
Battery charge/discharge parameters (charge from PV, discharge to Grid) (Optional):			
Charge/discharge Voltage Range [Vd.c.]	650-900		
Max. charge/discharge Current [Ad.c.]	12	15	18
Others:			
Protective Class	Class I		
Inverter Topology	Non-isolated		



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

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

Essen, 2023-11-30

www.tuev-nord-cert.de

prodcert@tuev-nord.de

ANNEX

Annex 1, Page 2 of 4

to Certificate registration no. 44 799 23 406749 - 385

Operation Temperature Range	-35~60℃		
Ingress Protection	IP66		
Weight	16kg	16kg	17kg
Dimension (W*H*D)	460*182*420mm		
Overvoltage-Category	DC(PV) II, AC(Main) III		
Hardware version	V3		
Software version	V3		
PV Grid-tied Inverter			
Model or Type designation	SPI15K-B X2	SPI17K-B X2	SPI20K-B X2
PV input parameters:			
Max. Input PV Voltage [Vd.c.]	1100		
MPPT Voltage Range [Vd.c.]	180-1100		
Max. PV Input Current [Ad.c.]	30+15	30+15	2*30
PV Short-circuit current [Ad.c.]	37.5+18.75	37.5+18.75	2*37.5
AC output (Grid Side) parameters:			
Rated Output Voltage [Va.c.]	400Vac, 3W+N+PE		
Rated Output Frequency [Hz]	50/ 60		
Rated Output Power [W]	15000	17000	20000
Max. Apparent Power [VA]	16500	18700	22000
Max. Output Current [Aa.c.]	23.8	27	31.8
Power Factor cosφ [λ]	>0.99(±0.8)		



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

Essen, 2023-11-30

ANNEX

Annex 1, Page 3 of 4

to Certificate registration no. 44 799 23 406749 - 385

Battery charge/discharge parameters (charge from PV, discharge to Grid) (Optional):			
Charge/discharge Voltage Range [Vd.c.]	650-900		
Max. charge/discharge Current [Ad.c.]	23	26	30
Others:			
Protective Class	Class I		
Inverter Topology	Non-isolated		
Operation Temperature Range	-35~60°C		
Ingress Protection	IP66		
Weight	17kg		
Dimension (W*H*D)	460*182*420mm		
Overvoltage-Category	DC(PV) II, AC(Main) III		
Hardware version	V3		
Software version	V3		
PV Grid-tied Inverter			
Model or Type designation	SPI23K-B X2	SPI25K-B X2P	SPI25K-B X2
PV input parameters:			
Max. Input PV Voltage [Vd.c.]	1100		
MPPT Voltage Range [Vd.c.]	180-1100		
Max. PV Input Current [Ad.c.]	2*30	40+20	2*30
PV Short-circuit current [Ad.c.]	2*37.5	50+25	2*37.5
AC output (Grid Side) parameters:			



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

Essen, 2023-11-30

ANNEX

Annex 1, Page 4 of 4

to Certificate registration no. 44 799 23 406749 - 385

Rated Output Voltage [Va.c.]	400Vac, 3W+N+PE		
Rated Output Frequency [Hz]	50/ 60		
Rated Output Power [W]	23000	25000	25000
Max. Apparent Power [VA]	25300	27500	27500
Max. Output Current [Aa.c.]	36.5	39.7	39.7
Power Factor cosφ [λ]	>0.99(±0.8)		
Battery charge/discharge parameters (charge from PV, discharge to Grid) (Optional):			
Charge/discharge Voltage Range [Vd.c.]	650-900		
Max. charge/discharge Current [Ad.c.]	35	38	38
Others:			
Protective Class	Class I		
Inverter Topology	Non-isolated		
Operation Temperature Range	-35~60°C		
Ingress Protection	IP66		
Weight	17kg		
Dimension (W*H*D)	460*182*420mm		
Overvoltage-Category	DC(PV) II, AC(Main) III		
Hardware version	V3		
Software version	V3		

Remark:

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



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

Essen, 2023-11-30