

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): SPI30K-B X2, SPI33K-B X2, SPI36K-B X2, SPI36K-B X2P,
SPI40K-B X2, SPI40K-B X2P

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 22 406749 - 075

Report no.: 492012073.001

File no.: PVP03019/22B-01

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

Essen, 2022-06-23

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.

ANNEX

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to Certificate registration no. 44 799 22 406749 - 075

Description of product(s):

Model type	SPI30K-B X2		
General information			
Type of Inverter.....	Non-Isolated	Separated by	Non Transformer
Safety Class.....	Class I	IP grade	IP66
Over-Voltage Category	PV Input: II AC Output: III	Pollution Degree	External PD3 Internal PD2
Hardware Version	V3.0	Software Version	V3.00
PV input			
V _{max} [V d.c.]	1100	I _{sc} [V d.c.]	37.5*3
MPP Voltage Range [V d.c.].....	180~1100	Max. Input Current [A d.c.].....	30*3
AC output			
Rated output voltage [V a.c.]	400, 3W+N+PE	Rated Output Frequency[Hz]....	50/60
Rated Output Power [kW a.c.] ...	30	Max. Apparent Power[kVA a.c.]	33
Max. Output Current [A a.c.].....	47.6	Power Factor	[-0.80, 0.80]

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Model type :	SPI33K-B X2		
General information			
Type of Inverter :	Non-Isolated	Separated by..... :	Non Transformer
Safety Class :	Class I	IP grade..... :	IP66
Over-Voltage Category..... :	PV Input: II AC Output: III	Pollution Degree :	External PD3 Internal PD2
Hardware Version..... :	V3.0	Software Version..... :	V3.00
PV input			
V _{max} [V d.c.] :	1100	I _{sc} [V d.c.]..... :	37.5*3
MPP Voltage Range [V d.c.]..... :	180~1100	Max. Input Current [A d.c.]..... :	30*3
AC output			
Rated output voltage [V a.c.] :	400, 3W+N+PE	Rated Output Frequency[Hz] .. :	50/60
Rated Output Power [kW a.c.]... :	33	Max. Apparent Power[kVA a.c.] :	36.3
Max. Output Current [A a.c.]..... :	52.4	Power Factor..... :	[-0.80, 0.80]

ANNEX

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Model type.....:	SPI36K-B X2		
General information			
Type of Inverter	Non-Isolated	Separated by.....:	Non Transformer
Safety Class	Class I	IP grade.....:	IP66
Over-Voltage Category	PV Input: II AC Output: III	Pollution Degree.....:	External PD3 Internal PD2
Hardware Version	V3.0	Software Version.....:	V3.00
PV input			
V _{max} [V d.c.]	1100	I _{sc} [V d.c.].....:	37.5*3
MPP Voltage Range [V d.c.]	180~1100	Max. Input Current [A d.c.]	30*3
AC output			
Rated output voltage [V a.c.].....:	400, 3W+N+PE	Rated Output Frequency[Hz] ..:	50/60
Rated Output Power [kW a.c.] ...:	36	Max. Apparent Power[kVA a.c.]:	39.6
Max. Output Current [A a.c.]	57.2	Power Factor.....:	[-0.80, 0.80]

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Model type :	SPI36K-B X2P		
General information			
Type of Inverter :	Non-Isolated	Separated by :	Non Transformer
Safety Class :	Class I	IP grade..... :	IP66
Over-Voltage Category :	PV Input: II AC Output: III	Pollution Degree..... :	External PD3 Internal PD2
Hardware Version :	V3.0	Software Version..... :	V3.00
PV input			
V _{max} [V d.c.] :	1100	I _{sc} [V d.c.]..... :	50/25/25
MPP Voltage Range [V d.c.] :	180~1100	Max. Input Current [A d.c.] :	40/20/20
AC output			
Rated output voltage [V a.c.]..... :	400, 3W+N+PE	Rated Output Frequency[Hz] .. :	50/60
Rated Output Power [kW a.c.] ... :	36	Max. Apparent Power[kVA a.c.] :	39.6
Max. Output Current [A a.c.] :	57.2	Power Factor..... :	[-0.80, 0.80]

ANNEX

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to Certificate registration no. 44 799 22 406749 - 075

Model type :	SPI40K-B X2		
General information			
Type of Inverter :	Non-Isolated	Separated by :	Non Transformer
Safety Class :	Class I	IP grade..... :	IP66
Over-Voltage Category :	PV Input: II AC Output: III	Pollution Degree..... :	External PD3 Internal PD2
Hardware Version :	V3.0	Software Version..... :	V3.00
PV input			
V _{max} [V d.c.] :	1100	I _{sc} [V d.c.]..... :	37.5*3
MPP Voltage Range [V d.c.] :	180~1100	Max. Input Current [A d.c.] :	30*3
AC output			
Rated output voltage [V a.c.]..... :	400, 3W+N+PE	Rated Output Frequency[Hz] .. :	50/60
Rated Output Power [kW a.c.] ... :	40	Max. Apparent Power[kVA a.c.] :	40
Max. Output Current [A a.c.] :	57.7	Power Factor..... :	[-0.80, 0.80]

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to Certificate registration no. 44 799 22 406749 - 075

Model type :	SPI40K-B X2P		
General information			
Type of Inverter..... :	Non-Isolated	Separated by :	Non Transformer
Safety Class..... :	Class I	IP grade :	IP66
Over-Voltage Category :	PV Input: II AC Output: III	Pollution Degree :	External PD3 Internal PD2
Hardware Version :	V3.0	Software Version :	V3.00
PV input			
V _{max} [V d.c.] :	1100	I _{sc} [V d.c.] :	50/25/25
MPP Voltage Range [V d.c.]..... :	180~1100	Max. Input Current [A d.c.] :	40/20/20
AC output			
Rated output voltage [V a.c.] :	400, 3W+N+PE	Rated Output Frequency[Hz]... :	50/60
Rated Output Power [kW a.c.] ... :	40	Max. Apparent Power[kVA a.c.] :	40
Max. Output Current [A a.c.]..... :	57.7	Power Factor :	[-0.80, 0.80]

Remark:

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