

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 22 406749 - 129M1	
Manufacturer and factory(-ies):	See Annex 1	
Report no.:	492012073.002	Valid from: 2023-11-30
File no.:	PVP05054/23B-01	Valid until: 2027-06-22



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

Essen, 2023-11-30

ANNEX

Annex 1, Page 1 of 1

to Certificate registration no. 44 780 22 406749 - 129M1

Manufacturer:

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.

Factory:

ZHANGZHOU KEHUA ELECTRIC TECHNOLOGY CO., LTD.

NO.11, JINXING ROAD, XIANGCHENG DISTRICT, ZHANGZHOU CITY, FUJIAN PROVINCE, 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 handwritten signature in blue ink, appearing to read "Jann Plenz".

TÜV NORD CERT GmbH
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Essen, 2023-11-30

ANNEX

Annex 2, Page 1 of 2

to Certificate registration no. 44 780 22 406749 - 129M1

Description of product(s):

PV Grid-tied Inverter						
Model or Type designation	SPI30K-B X2	SPI33K-B X2	SPI36K-B X2	SPI36K-B X2P	SPI40K-B X2	SPI40K-B X2P
PV input parameters:						
Max. Input PV Voltage [Vd.c.]	1100					
MPPT Voltage Range [Vd.c.]	180-1100					
Max. PV Input Current [Ad.c.]	3*30	3*30	3*30	40+20+20	3*30	40+20+20
PV Short-circuit current [Ad.c.]	3*37.5	3*37.5	3*37.5	50+25+25	3*37.5	50+25+25
AC output (Grid Side) parameters:						
Rated Output Voltage [Va.c.]	400Vac, 3W+N+PE					
Rated Output Frequency [Hz]	50/ 60					
Rated Output Power [kW]	30	33	36	36	40	40
Max. Apparent Power [kVA]	33	36.3	39.6	39.6	40	40
Max. Output Current [Aa.c.]	47.6	52.4	57.2	57.2	57.7	57.7
Power Factor $\cos\phi$ [λ]	>0.99(\pm 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.]	45.0	49.2	49.2	49.2	49.2	49.2
Others:						
Protective Class	Class I					



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Inverter Topology	Non-isolated
Operation Temperature Range	-35~60°C
Ingress Protection	IP66
Weight	27kg
Dimension (W*H*D)	550*480*200mm
Overtoltage-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.

