

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50530247

Blatt *Sheet*  
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
Jason Shen	01-DJW-CN21PSK3 001	12.01.2022 (day/mo/yr)

## Genehmigungsinhaber *License Holder*

SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

## Fertigungsstätte *Manufacturing Plant*

SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

## Prüfzeichen *Test Mark*



Bauart geprüft  
Sicherheit  
Regelmäßige  
Produktions-  
überwachung

www.tuv.com  
ID 1111249140

## Geprüft nach *Tested acc. to*

IEC 62109-1:2010  
IEC 62109-2:2011  
EN 62109-1:2010  
EN 62109-2:2011

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Wechselrichter (Grid Connected PV Inverter)

Type Designation	: X3-FTH-xxK-LV	13
	xx=40 50 60 70	
Vmax PV[Vd.c.]	: 800	
Isc PV[Ad.c.]	: 46*9	
MPP Voltage Range[Vd.c.]	: 400-850	
Max. Input Current[Ad.c.]	: 32*9	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt.[Va.c.]	: 3~/N/PE, 220	
Rated Output Freq.[Hz]	: 50/60	
Rated Output Power[kW]	: 40 50 60 70	
Max. Output Current[Aa.c.]	: 115.5 144.5 173.5 183.7	
Power Factor	: 0.8 (leading), 0.80 (lagging)	
Overvoltage Category (OVC)	: III for AC mains	

Continued on page 0002

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## ANLAGE (Appendix): 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

http://www.tuv.com/safety E-mail: markcheck@tuv.com  
Fax: +49 221 806-3935



Weichun Li



# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50530247

Blatt *Sheet*  
0002

Ihr Zeichen *Client Reference*  
Jason Shen

Unser Zeichen *Our Reference*  
01-DJW-CN21PSK3 001

Ausstellungsdatum *Date of Issue*  
12.01.2022 (day/mo/yr)

## Genehmigungsinhaber *License Holder*

SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

## Fertigungsstätte *Manufacturing Plant*

SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
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## Prüfzeichen *Test Mark*



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IEC 62109-1:2010  
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EN 62109-1:2010  
EN 62109-2:2011

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Wechselrichter (Grid Connected PV Inverter)

Type Designation	: X3-FTH-xxK	3
	xx=80 100 110	
Vmax PV[Vd.c.]	: 1100	
Isc PV[Ad.c.]	: 46*9	
MPP Voltage Range[Vd.c.]	: 500-800	
Max. Input Current[Ad.c.]	: 32*9	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt.[Va.c.]	: 3W+(N)+PE, 380/400	
Rated Output Freq.[Hz]	: 50/60	
Rated Output Power[kW]	: 80 100 110	
Max. Output Current[Aa.c.]	: 133.4 166.7 183.4	
Power Factor	: 0.8(leading), 0.80(lagging)	
Overvoltage Category (OVC)	: III for AC mains	

Continued on page 0003

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## ANLAGE (Appendix): 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
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**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

http://www.tuv.com/safety E-mail: markcheck@tuv.com  
Fax: +49 221 806-3935



Weichun Li

# Zertifikat

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Zertifikat Nr. *Certificate No.*  
R 50530247

Blatt *Sheet*  
0003

Ihr Zeichen *Client Reference*

Jason Shen

Unser Zeichen *Our Reference*

01-DJW-CN21PSK3 001

Ausstellungsdatum

12.01.2022

*Date of Issue*

(day/mo/yr)

## Genehmigungsinhaber *License Holder*

SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
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## Fertigungsstätte *Manufacturing Plant*

SolaX Power Network Technology  
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## Prüfzeichen *Test Mark*



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## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Wechselrichter (Grid Connected PV Inverter)

Type Designation	: X3-FTH-xxK	2
	xx=120	125
Vmax PV[Vd.c.]	: 1100	
Isc PV[Ad.c.]	: 46*12	
MPP Voltage Range[Vd.c.]	: 500-800	
Max. Input Current[Ad.c.]	: 32*12	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt.[Va.c.]	: 3W+(N)+PE, 380/400	
Rated Output Freq.[Hz]	: 50/60	
Rated Output Power[kW]	: 120	125
Max. Output Current[Aa.c.]	: 200	200
Power Factor	: 0.8(leading), 0.80(lagging)	
Overvoltage Category(OVC)	: III for AC mains	

Continued on page 0004

2

## ANLAGE (Appendix): 1.0

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfergrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
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Weichun Li



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0004

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum Date of Issue
Jason Shen	01-DJW-CN21PSK3 001	12.01.2022 (day/mo/yr)

## Genehmigungsinhaber License Holder

SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
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Tonglu City,  
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P.R. China

## Fertigungsstätte Manufacturing Plant

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ID 1111249140

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IEC 62109-1:2010  
IEC 62109-2:2011  
EN 62109-1:2010  
EN 62109-2:2011

## Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)

## Lizenzentgelte - Einheit License Fee - Unit

### PV-Wechselrichter (Grid Connected PV Inverter)

Type Designation	: X3-FTH-xxK-MV	2
	xx=136	150
Vmax PV[Vd.c.]	: 1100	
Isc PV[Ad.c.]	: 46*12	
MPP Voltage Range[Vd.c.]	: 500-800	
Max. Input Current[Ad.c.]	: 32*12	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt.[Va.c.]	: 3P3W+PE, 500/540	
Rated Output Freq.[Hz]	: 50/60	
Rated Output Power[kW]	: 136	150
Max. Output Current[Aa.c.]	: 172.8	190.6
Power Factor	: 0.8(leading), 0.80(lagging)	
Overvoltage Category(OVC)	: III for AC mains	

Continued on page 0005

2

## ANLAGE (Appendix): 1.0

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Weichun Li

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0005

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
Jason Shen	01-DJW-CN21PSK3 001	12.01.2022 (day/mo/yr)

## Genehmigungsinhaber *License Holder*

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P.R. China

## Fertigungsstätte *Manufacturing Plant*

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P.R. China

## Prüfzeichen *Test Mark*



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EN 62109-1:2010  
EN 62109-2:2011

## Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

## Lizenzentgelte - Einheit *License Fee - Unit*

### PV-Wechselrichter (Grid Connected PV Inverter)

Protective Class	: Class I
Ingress Protection (IP)	: IP66
Pollution Degree (PD)	: PD 3(outside)
Operating Temperature [°C]	: -25 to 60 (>45 derating)
Altitude [m]	: 3000
Type of Inverter	: Non-isolated

#### Remark(s):

The installation has to be carried out according to the attached installation instruction.  
Any additional requirements in countries where the product is going to be marketed have to be considered additionally.

### ANLAGE (Appendix): 1.0

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http://www.tuv.com/safety E-mail: markcheck@tuv.com  
Fax: +49 221 806-3935



Weichun Li



SolaX Power Network Technology (Zhejiang) Co., Ltd.  
Jason Shen

Date : 12.01.2022  
Our ref. : DJW 01  
Your ref.: Jason Shen

No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

**Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.**

Type of Equipment : Grid Connected PV Inverter  
Model Designation : See Certificate  
Certificate No. : R 50530247 0001  
Report No. : CN21PSK3 001

Dear Jason Shen,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area. In case you have a change regarding your involved local representative for the certificate, please inform us in due time.

With kind regards,

Certification Body

  
Weichun Li

Enclosure

证书的详细资料请登陆[www.tuvdotcom.com](http://www.tuvdotcom.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

**CERTIFICATE NO.:** CQC21024321435

**Valid from:** Nov.18,2021

**Valid until:** long-term

**NAME AND REGISTERED  
ADDRESS OF THE APPLICANT**

SolaX Power Network Technology (Zhejiang) Co., Ltd.  
No.288, Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province, 310000  
P. R. CHINA

**NAME AND REGISTERED  
ADDRESS OF THE  
MANUFACTURER**

SolaX Power Network Technology (Zhejiang) Co., Ltd.  
No.288, Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province, 310000  
P. R. CHINA

**NAME AND LOCATION  
OF THE FACTORY**

SolaX Power Network Technology (Zhejiang) Co., Ltd.  
No.288, Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Zhejiang Province, 310000  
P. R. CHINA

**PRODUCT NAME, MODEL  
AND SPECIFICATION**

Grid-Connected PV Inverter  
X3-FTH-80K, X3-FTH-100K, X3-FTH-110K, X3-FTH-120K, X3-FTH-136K-MV, X3-FTH-150K-MV  
( See Appendix )

**THE STANDARDS AND  
TECHNICAL REQUIREMENTS  
FOR THE PRODUCTS**

NB/T32004-2018

**TYPE OF CERTIFICATION  
SCHEMES**

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC33-461239-2018.  
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body.

The certificate information is available through the QR code below or CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



SIGNATURE:

谢肇煦



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

### APPENDIX

Page 1 of 2

CERTIFICATE NO.: CQC21024321435

PAPER:

#### X3-FTH-80K

直流输入: MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 32A\*9; 交流输出: 3W/N/PE, 230V/400V, 50Hz, max. 127.6A, 额定交流输出功率 80kW.

#### X3-FTH-100K

直流输入: MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 32A\*9; 交流输出: 3W/N/PE, 230V/400V, 50Hz, max. 159.5A, 额定交流输出功率 100kW.

#### X3-FTH-110K

直流输入: MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 32A\*9; 交流输出: 3W/N/PE, 230V/400V, 50Hz, max. 175.4A, 额定交流输出功率 110kW.

#### X3-FTH-120K

直流输入: MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 32A\*12; 交流输出: 3W/N/PE, 230V/400V, 50Hz, max. 191.3A, 额定交流输出功率 120kW.

#### X3-FTH-136K-MV

直流输入: MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 32A\*12; 交流输出: 3P3W+PE, 540V, 50Hz, max. 160A, 额定交流输出功率 136kW.

#### X3-FTH-150K-MV

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE





# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

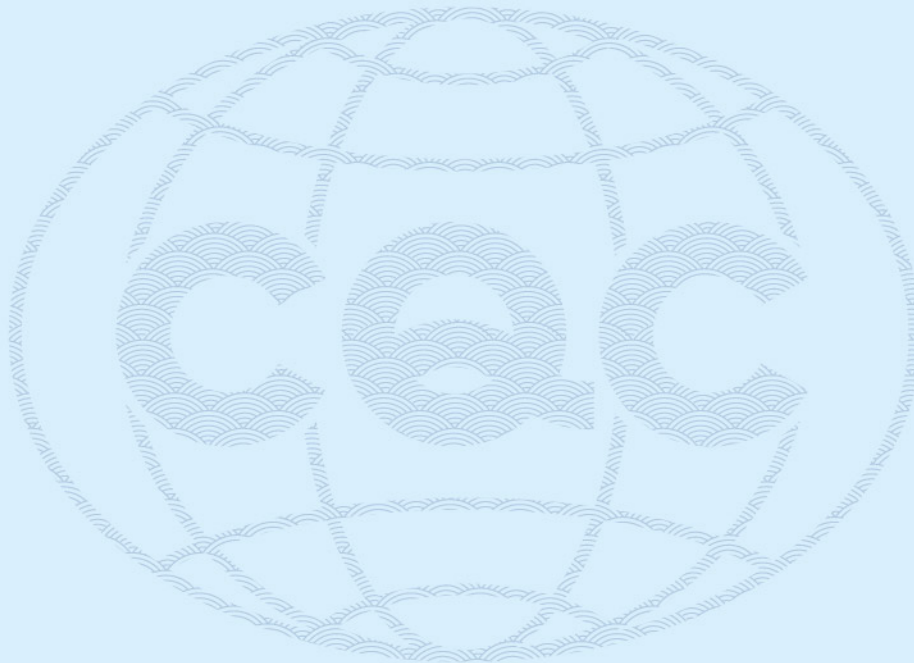
### APPENDIX

Page 2 of 2

CERTIFICATE NO.: CQC21024321435

PAPER:

直流输入: MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 36A\*12; 交流输出: 3P3W+PE, 540V, 50Hz, max. 176.5A, 额定交流输出功率 150kW.



**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE

# C E R T I F I C A T E



of Conformity  
Low Voltage Directive 2014/35/EU

Registration No.: AN 50530257 0001

Report No.: CN21PSK3 001

**Holder:** SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

**Product:** PV-Inverter  
(Grid-connected PV Inverter)

**Identification:** Type Designation : X3-FTH-xK-LV X3-FTH-yK X3-FTH-zK-MV  
(x=40, 50, 60, 70; y=80, 100, 110, 120,  
125; z=136, 150)  
Serial Number : Enigneering Samples  
Remark : Issued in conjunction with TÜV Rheinland  
license R 50530247 pages 0001-0005

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.



Date 12.01.2022

  
Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE



SolaX Power Network Technology (Zhejiang) Co., Ltd.  
Jason Shen

Date : 12.01.2022  
Our ref. : DJW 01  
Your ref.: Jason Shen

No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

**Ref : AN Certificate of Conf. Low Voltage D.**

Type of Equipment : Grid-connected PV Inverter  
Model Designation : See Certificate  
Certificate No. : AN 50530257 0001  
Report No. : CN21PSK3 001

Dear Jason Shen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

  
Weichun Li

Enclosure

证书的详细信息请登陆[www.tuvdotcom.com](http://www.tuvdotcom.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询