

Certificate: 70154937 Master Contract: 259077

Project: 70212786 **Date Issued:** 2019-01-25

Issued to: Altenergy Power System Inc.

No.1 Yatai Road

Jiaxing, Zhejiang 314050

CHINA

Attention: Kevin Lu

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by:

Allen Yao Allen Yao

PRODUCTS

CLASS - C531109 - POWER SUPPLIES - Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards

Grid Support Utility Interactive Microinverter, Model YC600, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-16 - General Use Power Supplies
*UL 1741 - Inverters, Converters, Controllers and Interconnection System Equipment for Use With
Distributed Energy Resources (Second Edition, Revision February 15, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision February 15, 2018) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011), California Rule 21 and Supplement SA.



Certificate: 70184750 Master Contract: 259077

Project: 70203118 **Date Issued:** 2019-01-28

Issued to: Altenergy Power System Inc.

No.1 Yatai Road

Jiaxing, Zhejiang, 314050

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by:

Allen Yao Allen Yao

PRODUCTS

CLASS - C531109 - POWER SUPPLIES - Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Grid Support Utility Interactive Microinverter, Model QS1200 and QS1, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA-C22.2 No. 107.1-16 - General Use Power Supplies

*UL1741 - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Second Edition, Revision dated February 15, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision dated February 15, 2018) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011), California Rule 21 and Supplement SA.



Certificate: 70184750 Master Contract: 259077

Project: 70184750 **Date Issued:** 2018-05-17

Issued to: Altenergy Power System Inc.

No.1 Yatai Road,

Jiaxing, Zhejiang, 314050

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Michael Tong Michael Tong

PRODUCTS

CLASS - C531109 - POWER SUPPLIES - Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Utility Interactive Microinverter, Model QS1200 and QS1, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-16 - General Use Power Supplies

*UL Std. No. 1741 - Second Edition - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (February 15, 2018)

*Note: Conformity to UL 1741-Second Edition (February 15, 2018) includes compliance with applicable requirements of IEEE 1547 (R2008) and IEEE 1547.1 (R2011).



Technical Compliance Statement FCC and ISED VERIFICATION

For the following information

Product : Microinverter

Model Number : QS1200; QS1

Brand Name : APsystems

Applicant : Altenergy Power System Inc.

Rules and Standards: 47 CFR FCC Part 15 Subpart B and

ICES-003 Issue 6: 2016

Ref. File No.: C1W1805018

(Class B Limit)

We hereby certify that the above product has been tested by us and complied with the FCC and ISED official limits. The product might be marketed in US in accordance with the standard 47 CFR FCC Part 2 and Part 15 Subpart B class B equipment regulations under FCC Rules. The test was performed according to the procedures mentioned in ANSI C63.4-2014.

The test data and results are issued on the test report no. **ACWE-F1806001.**

Jun.11, 2018

Ken Lu/ Assistant General Manager

AUDIX Technology (Wujiang) Co., Ltd. EMC Dept.

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The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant: Altenergy Power System Inc. Manufacturer: Altenergy Power System Inc.

Address: No.1, Yatai Road, Jiaxing 314050 Address: No.1, Yatai Road, Jiaxing 314050

Country: China Country: China

 Contact:
 Mr. Jiang Guofeng
 Contact:
 Mr. Jiang Guofeng

 Phone:
 86 573 83708108
 Phone:
 86 573 83708108

 FAX:
 86 573 83986966
 FAX:
 86 573 83986966

Email: guofeng.jiang@altenergy-power.com **Email:** guofeng.jiang@altenergy-power.com

Party Authorized To Apply Mark: Same as Manufacturer

Report Issuing Office: Intertek Testing Service Shanghai

Control Number: 4004037 Authorized by: for Dean Davidson, Certification Manager

CLISTEDUS

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Inverters, Converters, Controllers And Interconnection System Equipment For Use With Distributed

Standard(s): Energy Resources [UL 1741:2010 Ed.2 +R:07Sep2016]

General Use Power Supplies (R2011) < Expires: 01Jan2022> [CSA C22.2#107.1:2001 Ed.3]

Product: Photovoltaic Grid-connected Inverter

Brand Name: APS, APsystems

Models: YC250 followed by A, I. YC500 followed by A, I, -K.



Certificate: 70196383 Master Contract: 259077

Project: 70196383 **Date Issued:** 2018-09-14

Issued to: Altenergy Power System Inc.

No.1 Yatai Road

Jiaxing, Zhejiang, 314050

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Allen Yao
Allen Yao

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Utility Interactive Microinverter, Model YC600B, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA-C22.2 No. 107.1-16 - General Use Power Supplies

*UL1741 - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Second Edition, Revision dated February 15, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision dated February 15, 2018) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011)



Certificate: 70184750 Master Contract: 259077

Project: 70184750 **Date Issued:** 2018-05-17

Issued to: Altenergy Power System Inc.

No.1 Yatai Road,

Jiaxing, Zhejiang, 314050

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Michael Tong Michael Tong

PRODUCTS

CLASS - C531109 - POWER SUPPLIES - Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Utility Interactive Microinverter, Model QS1200 and QS1, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA-C22.2 No. 107.1-16 - General Use Power Supplies

*UL1741 - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Second Edition, Revision dated February 15, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision dated February 15, 2018) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011)



Technical Compliance Statement FCC and ISED VERIFICATION

For the following information

Product : Microinverter

Model Number : QS1200; QS1

Brand Name : APsystems

Applicant : Altenergy Power System Inc.

Rules and Standards: 47 CFR FCC Part 15 Subpart B and

ICES-003 Issue 6: 2016

Ref. File No.: C1W1805018

(Class B Limit)

We hereby certify that the above product has been tested by us and complied with the FCC and ISED official limits. The product might be marketed in US in accordance with the standard 47 CFR FCC Part 2 and Part 15 Subpart B class B equipment regulations under FCC Rules. The test was performed according to the procedures mentioned in ANSI C63.4-2014.

The test data and results are issued on the test report no. **ACWE-F1806001.**

Jun.11, 2018

Ken Lu/ Assistant General Manager

AUDIX Technology (Wujiang) Co., Ltd. EMC Dept.

u 4/1 18

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.



Certificate: 70184750 Master Contract: 259077

Project: 70184750 **Date Issued:** 2018-05-17

Issued to: Altenergy Power System Inc.

No.1 Yatai Road,

Jiaxing, Zhejiang, 314050

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Michael Tong Michael Tong

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Utility Interactive Microinverter, Model QS1200, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01 - General Use Power Supplies

*UL Std. No. 1741 - Second Edition - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (January 28, 2010)

*Note: Conformity to UL 1741-Second Edition (January 28, 2010) includes compliance with applicable requirements of IEEE 1547 (R2008) and IEEE 1547.1 (R2011).



Supplement to Certificate of Compliance

Certificate: 70184750 Master Contract: 259077

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70184750	2018-05-17	Utility Interactive Microinverter, Model QS1200, Rack mounted. (C/US)





of Conformity

Registration No.: AK 50411291 0001

Report No .: 50107528 001

Holder: Altenergy Power System Inc.

No.1Yatai Road

Jiaxing, Zhejiang Province 314050 P. R. China

Product: **PV-Inverter**

(Photovoltaic 3-Phase Grid-connected Microinverter)

Identification:

Type Designation : YC1000-3-220

Serial Number : Engineering Samples

Firmware Version : V1

Remark : Refer to test report 50107528 001

for details.

Tested acc. to: ABNT NBR 16149:2013

ABNT NBR 16150:2013 ABNT NBR IEC 62116:2012

ANEXO III - parte 2, Portaria n.º 357, de 01 de agosto de 2014

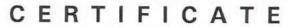
The certificate of conformity refers to the above mentioned product. This is to certify that, the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Theinland mark conformity.

Certification Body

Date 25.06.2018

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg





of Conformity

Registration No.: AK 50411292 0001

Report No.: 50118774 001

Holder: Altenergy Power System Inc.

No.1Yatai Road

Jiaxing, Zhejiang Province 314050 P. R. China

Product: PV-Inverter

(Photovoltaic 3-Phase Grid-connected Microinverter)

Identification: Type Designation : YC1000-3-380

> Serial Number : Engineering Samples

Firmware Version : V1

Remark : Refer to test report 50118774 001

for details.

Tested acc. to: ABNT NBR 16149:2013

ABNT NBR 16150:2013 ABNT NBR IEC 62116:2012

ANEXO III - parte 2, Portaria n.º 357, de 01 de agosto de 2014

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TUV Rheinand mark of conformity.

Date 25.06.2018

Weichun Li

Certification Bod

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



Certificate: 70154937 Master Contract: 259077

Project: 70173254 **Date Issued:** 2018-02-10

Issued to: Altenergy Power System Inc.

No.1 Yatai Road,

Jiaxing, Zhejiang 314050,

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Michael Tong Michael Tong

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Grid Support Utility Interactive Microinverter, Model YC600, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01 - General Use Power Supplies
*UL 1741 - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Second Edition, Revision September 7, 2016)

*Note: Conformity to UL 1741 (Second Edition, Revision September 7, 2016) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011), California Rule 21 and Supplement SA.



Certificate: 70079509 Master Contract: 259077

Project: 70079509 **Date Issued:** May 26, 2016

Issued to: Altenergy Power

System Inc. No.1 Yatai Road

Jiaxing, Zhejiang 314050

China

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Michael Tong

Issued by: Michael Tong

PRODUCTS

CLASS 5311 89 - POWER SUPPLIES - Distributed Generation - Power Systems Equipment

- Certified to U.S. Standards

CLASS 5311 09 - POWER SUPPLIES - Distributed Generation Power Systems Equipment

PV Power Optimizer, Model OPT700 and OPT700L, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01 - General Use Power Supplies

UL Std. No.1741 - Second Edition - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources(January 28, 2010)

DQD 507 Rev. 2012-05-22 Page: 1



CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

FCC VERIFICATION

CERTIFICATE NO.: SET2017-03819

Product: PV Power Optimizer

Model: OPT700,OPT700L

Applicant: Altenergy Power System Inc.

Address: No.1, Yatai Road, Jiaxing Zhejiang 314050 P.R. China

This is to certify that, on the basis of the tests undertaken as per

Report No. SET2017-03819, the submitted sample of the above

item complies with:

FCC PART 15 Subpart B

Signed for and on behalf of

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Smart Li, Vice Director



Date of Issue: Mar. 31, 2017

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan District, 518055

Shenzhen, Guangdong, China

Tel: 86-755-26627338 Fax: 86-755-26627238 http://www.ccic-set.com



CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

ICES VERIFICATION

CERTIFICATE NO.: SET2017-03883

Product: PV Power Optimizer

Model: OPT700,OPT700L

Applicant: Altenergy Power System Inc.

Address: No.1, Yatai Road, Jiaxing Zhejiang 314050 P.R. China

This is to certify that, on the basis of the tests undertaken as per

Report No. ${f SET2017\text{-}03883}$, the submitted sample of the above

item complies with:

ICES-003 issue 6(2016)

Signed for and on behalf of

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Smart Li, Vice Director



Date of Issue: Mar. 31, 2017

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan District, 518055

Shenzhen, Guangdong, China

Tel: 86-755-26627338 Fax: 86-755-26627238 http://www.ccic-set.com



Letter of Attestation

Document: 70164632 **Master Contract:** 259077

Project: 70164632 **Date Issued:** November 24, 2017

Issued to: Altenergy Power System Inc.

No.1 Yatai Road,

Jiaxing, Zhejiang 314050,

China

Attention: Guofeng Jiang

CSA Group hereby confirms that it has completed an evaluation of

Utility Interactive Microinverter,

Model YC600

CSA Group hereby attests that the product identified above and described in CSA Report 70154937 dated September 7, 2017, complies with the following standards/tests, to the extent applicable:

The testing of the subject inverters were completed according to the following sections of the test protocol entitled "Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems" prepared by "Sandia National Laboratories, Endecon Engineering, BEW Engineering, and Institute for Sustainable Technology", dated October 14, 2004 as modified by the "CEC Guideline for the use of the Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems - (draft for immediate use)" prepared by KEMA-Xenergy, and BEW Engineering, dated March 1, 2005 with deviations according to the requirements of the California Energy Commission New Solar Homes Partnership Guidebook 2nd edition (CEC-300-2007-008-CMF), Appendix 3, Section B – "Inverters":

- Maximum Continuous Power
- Conversion Efficiency
- Tare Losses

Notes:

1. For summary of test results and test set up refer to Appendix A and Test Report.

	Issued by Michael Tong, Certifier
Issued by:	Michael Tong
	Michael Lond

THIS LETTER OF ATTESTATION DOES NOT AUTHORIZE THE USE OF THE CSA MARK ON THE SUBJECT PRODUCTS.



Certificate: 70154937 Master Contract: 259077

Project: 70154937 **Date Issued:** 2017-09-07

Issued to: Altenergy Power System Inc.

No.1 Yatai Road

Jiaxing, Zhejiang 314050

CHINA

Attention: Guofeng Jiang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Michael Tong Michael Tong

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Utility Interactive Microinverter, Model YC600, Rack mounted.

For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01 - General Use Power Supplies

*UL Std. No. 1741-Second Edition - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (January 28, 2010)

*Note: Conformity to UL 1741-Second Edition (January 28, 2010) includes compliance with applicable requirements of ANSI/IEEE 1547 (R2008) and ANSI/IEEE 1547.1 (R2011).



FCC and ISED VERIFICATION

Ref. File No.: ACWE-C1W1708057

For the following equipment

Applicant : Altenergy Power System Inc.

Manufacturer : Altenergy Power System Inc.

FACTORY: Altenergy Power System Inc.

Product : Microinverter

Model Number: YC600

Brand : APsystems

We, AUDIX Technology (Wujiang) Co., Ltd. EMC Dept. hereby certify that the above products has been tested by us with the listed standards and found in compliance with the FCC and ISED official limits. The product might be marketed at the US accordance to FCC Rule based on the standard CFR 47 Part 2 and Part 15 Class B equipment regulations. The test was performed according to the procedures mentioned in ANSI C63.4-2014.

The test data & results are issued on the test report No. ACWE-F1707002.

FCC 47 CFR Part 15 Subpart B and

ANSI C63.4-2014

ICES-003 Issue 6: 2016

Sep.06, 2017

Ken Lu / Assistant General Manager

AUDIX Technology (Wujiang) Co., Ltd. EMC Dept.

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

CERTIFICATE



of Conformity

Registration No.:

AK 50336567 0001

Report No.:

15094345 001

Holder:

Altenergy Power System Inc. No.1Yatai Road

Jiaxing, Zhejiang Province 314050

P.R. China

Product:

PV-Inverter

(Grid-connected Microinverter)

Identification:

Type Designation

: YC500A YC500I

Serial Number

: Engineering Samples

Firmware Version

: T24

Remark

: Refer to test report 15094345 001

for details.

Tested acc. to:

ABNT NBR 16149:2013 ABNT NBR 16150:2013 ABNT NBR IEC 62116:2012

ANEXO III - parte 2, Portaria n.º 357, de 01 de agosto de 2014

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a Till Basiniant mark of conformity.

Date 06.04.2016

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



Product Service

CERTIFICATE OF CONFORMITY

LOW VOLTAGE DIRECTIVE 2014/35/EU KONFORMITÄTSBESCHEINIGUNG

CERTIFICATION NO.

S3M21507-0034-31810

ZERTIFIKATSNUMMER

Altenergy Power System Inc.

CERTIFICATE HOLDER ZERTIFIKATSINHABER

No. 1 Yatai Road, Jiaxing, 314050 Zhejiang Province

P.R. China

TYPE OF EQUIPMENT

GERÄTEART

Photovoltaic 3-phase gird-connected Microinverter

BRAND NAME

MARKE

APsystems

MODEL NAME

YC1000-3

GERÄTETYP

This Certificate of Conformity is to certify that the tested sample(s) is (are) presumed to be in conformity with the safety objectives referred to in Article 3 and set out in Annex I or parts thereof, covered by those harmonised standards or parts thereof according to the Council Directive 2014/35/EU.

Mit dieser Konformitätsbescheinigung wird bestätigt, dass für das (die) getestete(n) Prüfmuster eine Konformität mit den Sicherheitszielen nach Artikel 3 und Anhang I oder Teilen davon vermutet wird, abgedeckt von den betreffenden harmonisierten Norm(en) oder Teilen davon, gemäß der Richtlinie 2014/35/EU des Rates.

Assessment of conformity was based on the following standard(s); / Die Bewertung der Konformität basiert auf folgende Norm(en);

SPECIFICATION / ISSUE / DATE SPEZIFIKATION / AUSGABE / DATUM EN 62109-2:2011 EN 62109-1:2010

REPORT NUMBER BERICHTSNUMMER

EFSH15060101-IE-02-L01, EFSH15060101-IE-02-L01-A1

NOTES:

The certificate is valid at the time of issue and only refers to the condition of the equipment at that time. The assessment by the Certification Body is based on the principles of the DIN EN ISO/IEC 17065:2013. The certificate is only granted on the condition that the owner continues to meet all Eurofins procedure, test and certification regulations as well as the General Terms of Business of Eurofins Product Service GmbH.

Das Zertifikat ist zum Zeitpunkt der Ausstellung gültig und bezieht sich nur auf die Situation des Gerätes zu diesem Zeitpunkt. Die Bewertung durch die Zertifzierstelle erfolgt nach den Prinzipien der DIN EN ISO/IEC 17065:2013. Dieses Zertifikat wird unter der Bedingung erteilt, dass der Inhaber die Anforderungen des Verfahrens, die Prüf- und Zertifizierungsordnung sowie die Allgemeinen Geschäftsbedingungen der Eurofins Product Service GmbH einhält



Where compliance of electrical equipment with the safety objectives referred to in Article 3 and set out in Annex I has been demonstrated by the conformity assessment procedure, manufacturers shall draw up an EU declaration of conformity and affix the CE marking. (Chapter 2, Article 6, Clause 2 - Obligations of manufacturers)

Wurde mit dem Konformitätsbewertungsverfahren nachgewiesen, dass ein elektrisches Betriebsmittel den Sicherheitszielen nach Artikel 3 und Anhang I entspricht, stellen die Hersteller eine EU - Konformitätserklärung aus und bringen die CE - Kennzeichnung an. (Kapitel 2, Artikel 6, Absatz 2 - Pflichten des Herstellers)

Notified Body RED / R&TTE - EU • Notified Body MD - EU • NCB - IECEE CB Scheme • GS Body - ZLS (GS-Mark) • E-Mark eurofins-Bauart geprüft • TCB - FCC USA • FCB - ISED Canada • BQTF - Bluetooth® • International Type Approval Service



Date: 2016-06-22 Valid until: 2019-06-21

Signature:

COUCT SE

Certifier: Adelheid Kutzker

Title: Certification Manager

Eurofins Product Service GmbH Page 1 g(1 Storkower Straße 38c, 15526 Reichenwalde, Germany





of Conformity

Registration No.:

AK 50362136 0001

Report No.:

15094346 001

Holder:

Altenergy Power System Inc. No.1Yatai Road Jiaxing, Zhejiang Province 314050

Product:

PV-Inverter

(Grid-connected Microinverter)

Identification:

Type Designation

: YC500A-127 YC500I-127

Serial Number

: Engineering Samples

Firmware Version

: REV.5

Remark

: Refer to test report 15094346 001

for details.

Tested acc. to:

ABNT NBR 16149:2013 ABNT NBR 16150:2013 ABNT NBR IEC 62116:2012

ANEXO III - parte 2, Portaria n.º 357, de 01 de agosto de 2014

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Breinland mark of conformity.

Certification

Date

25.10.2016

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification

Issued Under the Authority of the Federal Communications Commission

By:

PHOENIX TESTLAB GmbH Koenigswinkel 10 32825 Blomberg, Germany

Date of Grant: 09/02/2015

Application Dated: 09/02/2015

Altenergy Power System Inc. No.1, Yatai Road, Jiaxing Zhejiang 314050 P.R. China Jiaxing, China

Attention: Kevin Lu, engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2AFGR-APS2530P

Name of Grantee: Altenergy Power System Inc.

Equipment Class: Digital Transmission System

Notes: ZigBee Module Modular Type: Single Modular

Frequency Output Frequency Emission

Grant Notes FCC Rule Parts Range (MHZ) Watts Tolerance Designator

15C 2405.0 - 2480.0 0.0048

Output power listed is peak conducted. This OEM module is approved for use in products operating as mobile or fixed transmitting device. The only antenna approved for use with this module is those documented in the filing, and must be installed in the manner specified therein. This device and its antenna(s) must operate with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Grantee shall provide installation and operating instructions for satisfying RF exposure requirements to OEM integrators and installers. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device.

TCB

GRANT OF EQUIPMENT AUTHORIZATION

Certification

Issued Under the Authority of the **Federal Communications Commission**

By:

PHOENIX TESTLAB GmbH Koenigswinkel 10 32825 Blomberg, Germany

Date of Grant: 09/02/2015

Application Dated: 09/02/2015

Altenergy Power System Inc. No.1, Yatai Road, Jiaxing Zhejiang 314050 P.R. China Jiaxing, China

Attention: Kevin Lu, engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2AFGR-APS2530S

Name of Grantee: Altenergy Power System Inc. **Equipment Class: Digital Transmission System**

Notes: ZigBee Module Modular Type: Single Modular

Frequency Output Frequency **Emission Grant Notes FCC Rule Parts** Range (MHZ) Watts **Tolerance Designator**

> 15C 2405.0 - 2480.0 0.0048

Output power listed is peak conducted. This OEM module is approved for use in products operating as mobile or fixed transmitting device. The only antenna approved for use with this module is those documented in the filing, and must be installed in the manner specified therein. This device and its antenna(s) must operate with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Grantee shall provide installation and operating instructions for satisfying RF exposure requirements to OEM integrators and installers. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device.



TECHNICAL APPROVAL CERTIFICATE

based on the Agreement on Mutual Recognition between the European Community and Canada

CERTIFICAT D'APPROBATION TECHNIQUE

en se basant l'accord de reconnaissance mutuelle entre la Communauté Européenne et le Canada

CERTIFICATE NUMBER NUMÉRO DE CERTIFICAT

CERTIFICATION NUMBER NUMÉRO DE CERTIFICATION

TYPE OF SERVICE

CERTIFICATE HOLDER TITULAIRE DU CERTIFICAT

TYPE OF EQUIPMENT GENRE DE MATÉRIEL

MODEL NUMBER NUMÉRO DE MODELE

FREQUENCY RANGE BANDE DE FRÉQUENCES

EMISSION DESIGNATION (TRC-43) DÉSIGNATION D'ÉMISSION (CRT-43)

R.F. POWER RATING (WATT) PUISSANCE NOMINALE H.F (WATT)

ANTENNA INFORMATION INFORMATION D'ANTENNE

CONTACT INFORMATION OF TESTING LABORATORY COORDONNÉES DU LABORATOIRE D'ESSAI

CERTIFIED TO SPECIFICATION / ISSUE CAHIER DES CHARGES / ÉDITION

15-210578

IC: 20481-APS2530P

New Single Certification (Modular Approval)

Altenergy Power System Inc. No.1, Yatai Road, Jiaxing Zhejiang 314050 P.R. China

Zigbee Module

APS2530P

2405-2480 MHz

1M63G1D

0.0048W

PCB Antenna, Gain: 0.8 dBi

CCIC-SET

Electronic Testing Building, Shahe Road, Xili Town, Nanshan District, Shenzhen Shenzhen, China

RSS-247 Issue 1, RSS-GEN Issue 4, RSS-102 Issue 5

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the Industry Canada issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by Industry Canada. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by Industry Canada.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'Industrie Canada et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'Industrie Canada. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par Industrie Canada.

Labelling of Certified Radio Equipment: Equipment that has received certification but is not labelled with the model number and the certification number as outlined above is not considered certified.

Étiquetage du matériel radio homologué: Le matériel pour lequel une certification a été obtenue mais qui n'est pas étiqueté conformément aux exigences ci-dessus (numéro de modèle et numéro de certification) n'est pas considéré comme certifié.

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specification. J'atteste, par la présente, que le matériel a fait l'objet d'essai et a été jugé conforme à la spécification ci-dessus.

Certification Body Code: DE0003

recognised by

Bundesnetzagentur

Signed by / Signataire Alan Lane

Blomberg, 09 September 2015

Foreign Certification Body (FCB)

BNetzA-CAB-04/22-53



TECHNICAL APPROVAL CERTIFICATE

based on the Agreement on Mutual Recognition between the European Community and Canada

CERTIFICAT D'APPROBATION TECHNIQUE

en se basant l'accord de reconnaissance mutuelle entre la Communauté Européenne et le Canada

CERTIFICATE NUMBER NUMÉRO DE CERTIFICAT

CERTIFICATION NUMBER NUMÉRO DE CERTIFICATION

TYPE OF SERVICE

CERTIFICATE HOLDER TITULAIRE DU CERTIFICAT

TYPE OF EQUIPMENT GENRE DE MATÉRIEL

MODEL NUMBER NUMÉRO DE MODELE

FREQUENCY RANGE BANDE DE FRÉQUENCES

EMISSION DESIGNATION (TRC-43) DÉSIGNATION D'ÉMISSION (CRT-43)

R.F. POWER RATING (WATT) PUISSANCE NOMINALE H.F (WATT)

ANTENNA INFORMATION INFORMATION D'ANTENNE

CONTACT INFORMATION OF TESTING LABORATORY COORDONNÉES DU LABORATOIRE D'ESSAI

CERTIFIED TO SPECIFICATION / ISSUE CAHIER DES CHARGES / ÉDITION

15-210579

IC: 20481-APS2530S

New Single Certification (Modular Approval)

Altenergy Power System Inc. No.1, Yatai Road, Jiaxing Zhejiang 314050 P.R. China

Zigbee Module

APS2530S

2405-2480 MHz

1M63G1D

0.0048W

Ipex connector with Whip Antenna, Gain: 2 dBi

CCIC-SET

Electronic Testing Building, Shahe Road, Xili Town, Nanshan District, Shenzhen Shenzhen, China

RSS-247 Issue 1, RSS-GEN Issue 4, RSS-102 Issue 5

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the Industry Canada issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by Industry Canada. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by Industry Canada.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'Industrie Canada et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'Industrie Canada. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par Industrie Canada.

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Certification Body Code: DE0003

recognised by

Bundesnetzagentur

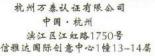
Signed by / Signataire Alan Lane

Blomberg, 09 September 2015

Foreign Certification Body (FCB)

BNetzA-CAB-04/22-53







认证证书

浙江昱能科技有限公司

(分支机构详见附件)

浙江省嘉兴市南湖区亚太路 (嘉兴科技城) 1号内1幢3楼、上海市浦东新区张杨路188号汤臣中心B403 (分支机构地址详见附件)

统一社会信用代码: 91330400551779794Q

建立的管理体系,按照以下标准评审合格,特发此证。

认证标准

GB/T 19001-2008 idt ISO9001:2008

认证范围

新能源发电成套设备、关键设备的设计、制造及销售

(该证书所包含的分支机构及审核范围见附件)

证书号: 15/17Q5292R21 发证日期: 2017年02月15日 有效期至: 2018年09月14日 本证书信息可在国家认证认可监督管理委员会网站 (www.cnca.gov.cn) 上查询。





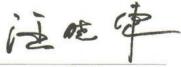


中国认可 国际互认 管理体系 CNAS C015-M

第一次监审

第二次临审

第三次监审



总经理

证书有效期内,每年至少进行一次监督审核,且两次的审核间隔不得超过12个月。 每次监督审核后,WIT将在本证书上加贴合格标签。 凡认证范围涉及行政许可或国家强制认证要求的,本证书随相关行政许可或国家 强制认证证书失效而失效。



浙江昱能科技有限公司

(分支机构详见附件)

浙江省嘉兴市南湖区亚太路 (嘉兴科技城) 1号内1幢3楼、 上海市浦东新区张杨路188号汤臣中心B403 (分支机构地址详见附件)

统一社会信用代码: 91330400551779794Q

建立的管理体系,按照以下标准评审合格,特发此证。

认证标准

GB/T 19001-2008 idt ISO9001:2008

认证范围

新能源发电成套设备、关键设备的设计、制造及销售

(该证书所包含的分支机构及审核范围见附件)

证书号: 15/17Q5292R21 发证日期: 2017年02月15日 有效期至: 2018年09月14日本证书信息可在国家认证认可监督管理委员会网站(www.cnca.gov.cn)上查询。







中国认可 国际互认 管理体系 CNAS C015-M

第一次监审

第二次监审

第三次监审



总经理

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中国·杭州 滨江区江虹路1750号 信羅达国际创意中心1幢13-14层







CERTIFICATE OF REGISTRATION

This is to certify that the Management System established by

ALTENERGY POWER SYSTEM INC.

(Please Refer to the Attachment for Particular Sub-Site)

3F,Building 1,NO.1 Yatai Road, Jiaxing Science Park, Nanhu District, Jiaxing, Zhejiang, P.R.China Rm. B403, No.188 Zhangyang Road, Pudong, Shanghai, P.R.China (Please Refer to the Attachment for Particular Address)

Unified Social Credit Code: 91330400551779794Q

Has been assessed to comply with the requirements of the international standard

GB/T 19001-2008 idt ISO9001:2008

Scope of certification

Design, manufacture, sales of alternative energy power generation equipments

(Please Refer to the Sub-Certificates for Branches and Related Registration Scopes Included in this Certificate)

NO:15/17Q5292R21 DATE OF ISSUE:Feb.15,2017 VALID UNTIL: Sep.14,2018

The Certificate Information Can be Obtained by Visiting http://www.cnca.gov.cn.







First Second Third
Surveillance Surveillance Surveillance

Wangsciasolong
General Manager, WangXiaoDong

The Surveillance Audit shall be Conducted at Least Once Each Year Within the Validity of Registration Certificate, and the Interval Between Two Surveillance Audits shall not Exceed 12 Months.

The Compliance Label will be Attached to this Registration Certificate after the Surveillance Audit.

Every certificate, which the certification scope within the required of administrative license or National Mandatory

Certification requirements will become invalid when the license or mandatory certification lose effectiveness







CERTIFICATE OF REGISTRATION

This is to certify that the Management System established by

ALTENERGY POWER SYSTEM INC.

(Please Refer to the Attachment for Particular Sub-Site)

3F,Building 1,NO.1 Yatai Road, Jiaxing Science Park, Nanhu District, Jiaxing, Zhejiang, P.R.China Rm. B403, No.188 Zhangyang Road, Pudong, Shanghai, P.R.China (Please Refer to the Attachment for Particular Address)

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General Manager, WangXiaoDong

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对其分支机构适用的证明认证证书附件

公司名称: 浙江昱能科技有限公司

公司地址:浙江省嘉兴市南湖区亚太路 (嘉兴科技城) 1号内1幢3楼、上海市浦东新区张杨路188号汤臣中心B403

浙江昱能科技有限公司含分现场:

公司名称:上海销售部

公司地址:上海市浦东新区张杨路188号汤臣中心B403

认证范围:新能源发电成套设备、关键设备销售

证书号: 15/17Q5292R21 发证日期: 2017年02月15日 有效期至: 2018年09月14日







中国认可 国际互认 管理体系 CNAS C015-M

第一次监审

第二次监审

第三次监审



总经理

证书有效期内,每年至少进行一次监督审核,且两次的审核间隔不得超过12个月。 每次监督审核后,WIT将在本证书上加贴合格标签。





萬泰認證

对其分支机构适用的证明认证证书附件

公司名称: 浙江昱能科技有限公司

公司地址:浙江省嘉兴市南湖区亚太路(嘉兴科技城)1号内1幢3楼、 上海市浦东新区张杨路188号汤臣中心B403

浙江昱能科技有限公司含分现场:

公司名称:上海销售部

公司地址:上海市浦东新区张杨路188号汤臣中心B403

认证范围:新能源发电成套设备、关键设备销售

证书号: 15/17Q5292R21 发证日期: 2017年02月15日 有效期至: 2018年09月14日







中国认可 国际互认 管理体系 CNAS C015-M

第一次监审

第二次监审

第三次监审



总经理

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Appendix to Certificate To Whom May Concern

Name: ALTENERGY POWER SYSTEM INC.

Address: 3F,Building 1,NO.1 Yatai Road, Jiaxing Science Park, Nanhu District, Jiaxing, Zhejiang, P.R.China Rm. B403, No.188 Zhangyang Road, Pudong, Shanghai, P.R.China

ALTENERGY POWER SYSTEM INC. Include:

Name: Shanghai Sales Department

Address: Rm. B403, No.188 Zhangyang Road, Pudong, Shanghai, P.R.China

Scope: Sales of Alternative Energy Power Generation Equipments

NO:15/17Q5292R21 DATE OF ISSUE: Feb. 15, 2017 VALID UNTIL: Sep. 14, 2018







MANAGEMENT SYSTEM CNAS C015-M



Second Surveillance Third Surveillance Waryacasolweg
General Manager, WangXiaoDong

Hangzhou WIT Assessment Co.,Ltd. 13/14Floor, International Sunyard, No.1750 Jianghong Avenue, Binjiang District, Hangzhou • China The Surveillance Audit shall be Conducted at Least Once Each Year Within the Validity of Registration Certificate, and the Interval Between Two Surveillance Audits shall not Exceed 12 Months.

The Compliance Label will be Attached to this Registration Certificate after the Surveillance Audit.





禹赤認證

Appendix to Certificate To Whom May Concern

Name: ALTENERGY POWER SYSTEM INC.

Address: 3F, Building 1, NO.1 Yatai Road, Jiaxing Science Park, Nanhu District, Jiaxing, Zhejiang, P.R. China Rm. B403, No.188 Zhangyang Road, Pudong, Shanghai, P.R.China

ALTENERGY POWER SYSTEM INC. Include:

Name: Shanghai Sales Department

Address: Rm. B403, No.188 Zhangyang Road, Pudong, Shanghai, P.R.China

Scope: Sales of Alternative Energy Power Generation Equipments

NO:15/17Q5292R21 DATE OF ISSUE:Feb.15,2017 VALID UNTIL: Sep.14,2018







CNAS C015-M

Hangzhou WIT Assessment Co., Ltd. 13/14Floor, International Sunyard, No.1750 Jianghong Avenue, Binjiang District, Hangzhou • China

The Surveillance Audit shall be Conducted at Least Once Each Year Within the Validity of Registration Certificate, and the Interval Between Two Surveillance Audits shall not Exceed 12 Months. The Compliance Label will be Attached to this Registration Certificate after the Surveillance Audit.