



# Certificate of Compliance

**Certificate:** 70154937

**Master Contract:** 259077

**Project:** 80035649

**Date Issued:** 2020-03-02

**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 US or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:** Rohana Yang  
Rohana Yang

## 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 - Power Conversion Equipment

\*UL 1741 - Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Second Edition, Revision February 15, 2018)

UL1741 CRD - Grid Support Utility Interactive Interoperability Optional Functions: Prevent Enter Service and Limit Active Power (CA Rule 21, Phase 3, functions 2 and 3) (Dated October 22, 2019)



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\*Note1: 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 SA8-SA18.

\*Note2: This product conforms with NEC-2014 and NEC-2017 Article 690.12 and CEC-2018 Sec 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.

# 萬泰認證 认证证书

浙江昱能科技有限公司

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

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/T19001-2016 idt ISO9001:2015**

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

证书号：15/20Q5187R30 发证日期：2020年02月15日 有效期至：2023年02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](http://www.cnca.gov.cn)）上查询。



中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C015-M

第一次监审

第二次监审

第三次监审

汪晓军

总经理

杭州万泰认证有限公司

中国·杭州

滨江区江虹路1750号

信雅达国际创意中心1幢13-14层

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。  
获证组织必须定期接受监督审核并经审核合格此证书方继续有效，每次监督审核合格后，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。



# Certificate of Compliance

**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 of Compliance

**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 of Compliance

**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.



# 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*

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**Issued by Michael Tong, Certifier**

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



# Certificate of Compliance

**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

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**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).



# Technical Compliance Statement

## **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.



# Letter of Attestation

**Document:** 2664695

**Master Contract:** 259077

**Project:** 2664695

**Date Issued:** September 26, 2013

**Issued to:** Altenergy Power System, Inc.  
No. 1 Yatai Road  
Jiaxing 314050  
China  
Attention: Mr. Jiang Guofeng

*CSA Group hereby confirms that it has completed an evaluation of  
Utility Interactive Photovoltaic Inverters,*

*Model No. YC500A, YC500I, YC250A and YC250I*

*CSA Group hereby attests that the products identified above and described in CSA test report  
2664695 complies with the following standards/tests, to the extent applicable:*

UL 1703:2002 / UL 1741:2010

UL 1703 Sec.35 - Temperature Cycling Test

UL 1703 Sec.36 - Humidity Test

UL 1741Sec.44 - Dielectric Voltage-Withstand Test

UL 1741Sec. 48 - Bonding Path Impedance Test

**Notes:**

1. Units verified against CSA test report 2664695, dated September 26, 2013.
3. Refer to test report (3 Pages) for test results.

**Issued by:**

*Kyle Song*

Issued by Kyle Song, Certifier

Reviewed by Benjamin Liu

THIS LETTER OF ATTESTATION DOES NOT AUTHORIZE THE USE OF THE CSA MARK ON THE SUBJECT PRODUCTS. QUOTATIONS FROM THE TEST REPORT OR THE USE OF THE NAME OF THE CANADIAN STANDARDS ASSOCIATION AND CSA INTERNATIONAL OR ITS REGISTERED TRADEMARK, IN ANY WAY, IS NOT PERMITTED WITHOUT PRIOR WRITTEN CONSENT OF THE CANADIAN STANDARDS ASSOCIATION OR CSA GROUP