



Certificate of Compliance

Certificate: 80060416

Master Contract: 259077

Project: 80060416

Date Issued: 2021-01-07

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: Jusfer Wang 

PRODUCTS

CLASS 3862 66 - INFORMATION TECHNOLOGY EQUIPMENT-(CSA 62368-1)

CLASS 3862 96 - INFORMATION TECHNOLOGY EQUIPMENT-(ANSI/UL 62368-1) - Certified to US Standards

Energy Communication Unit, Indoor use, Models ECU-R, ECU-B and LCU, rated 5 Vdc, max. 2 A, 1.7 W.

Note: Subject product should be powered by an external approved LPS/PS1 source with an output rated 5Vdc, 2.0 A Max.

Conditions of Acceptability: Refer to individual report.

APPLICABLE REQUIREMENTS

- | | | |
|---|---|---|
| CSA C22.2 No. 62368-1:19, 3 rd Ed. | - | Audio/video, information and communication technology equipment Part 1: Safety requirements |
| UL 62368-1, 3 rd Ed | - | Audio/video, information and communication technology equipment Part 1: Safety requirements |



Supplement to Certificate of Compliance

Certificate: 80060416

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
80060416	2021-01-07	Original certification for Energy Communication Unit, Indoor use, Models ECU-R, ECU-B and LCU.



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2030.5 CSIP

CERTIFIED

THE SUNSPEC ALLIANCE HEREBY CERTIFIES THAT

Altenergy Power System Inc.

Has been issued this SunSpec Certified Product
Award for Successful Testing and Certification of the

PRODUCT NAME

ECU and APstorage

PRODUCT MODELS

ECU-R
ECU-C
APstorage

SUNSPEC DEVICE CATEGORY

Client

AUTHORIZED TEST LABORATORY

CSA Group

TESTING DATE

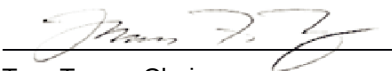
January 14, 2020

AWARDED ON

January 28, 2020

CERTIFICATE NUMBER

CS-000012


Tom Tansy, Chairman



TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB**

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

Bay Area Compliance Laboratory Corp.
1274 Anvilwood Avenue
Sunnyvale, CA 94089

Date of Grant: 01/26/2021
Application Dated: 01/26/2021

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

Attention: Guofeng Jiang , Manager

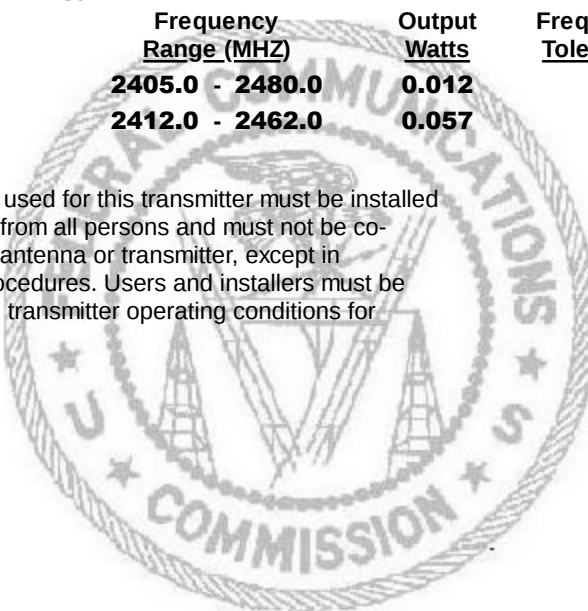
NOT TRANSFERABLE

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: 2AFGRECUR
Name of Grantee: Altenergy Power System Inc.
Equipment Class: Digital Transmission System
Notes: Energy Communication Unit

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	2405.0 - 2480.0	0.012		
	15C	2412.0 - 2462.0	0.057		

Output power listed is conducted. The antenna(s) used for this transmitter must be installed to provide 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, except in accordance with FCC multi-transmitter product procedures. Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB**

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

**Bureau Veritas Consumer Products
Services, Inc.**
775 Montague Expressway
Milpitas, CA 95035

Date of Grant: 06/23/2020**Application Dated: 06/23/2020**

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-APS2530H
Name of Grantee: Altenergy Power System Inc.
Equipment Class: Digital Transmission System
Notes: Zigbee module
Modular Type: Single Modular

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	2405.0 - 2480.0	0.021577		

RF output power is conducted. Single Modular Approval. Co-location of this module with other transmitters that operate simultaneously are required to be evaluated using the FCC multi transmitter procedures. The host integrator must follow the integration instructions provided by the module manufacturer and ensure that the composite-system end product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules and to KDB Publication 996369. The module antenna(s) must be installed to meet the RF exposure compliance separation distance of 20cm and any additional testing and authorization process as required. The module grantee is responsible for providing the documentation to the system integrator on restrictions of use, for continuing compliance of the module. The host integrator installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation and should refer to guidance in KDB 996369.

FCC PART 15B TEST REPORT

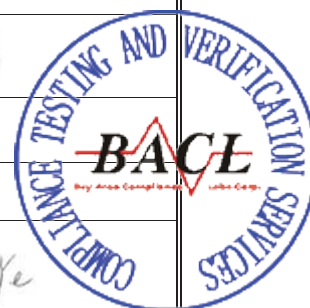
For

Altenergy Power System Inc.

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

Tested Model: ECU-R
Series Model: ECU-B、LCU

Report Type: Original Report	Product Type: Energy Communication Unit
Project Engineer:	Dean Zhou
Report Number:	RSHF201207001-00C
Report Date:	2020-12-21
Reviewed By:	Oscar Ye EMC Manager
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu province, China Tel: +86-0512-86175000 Fax: +86-0512-88934268 www.baclcorp.com.cn



TECHNICAL ACCEPTANCE CERTIFICATE CERTIFICAT D'ACCEPTABILITÉ TECHNIQUE

Tracking Number :	CS30251	Certification No.:	20481-APS2530H
Pistage du Nombre		No. DE CERTIFICATION	
Application Type:	Single New	Issued Date (Date Publiée):	June 29, 2020

Issued To (DÉLIVRÉ A):	ALTENERGY POWER SYSTEM INC.		
Address	No.1, Yatai Road, Jiaxing , Zhejiang 314050,P.R. China		
Product Description (DESCRIPTION DU MATÉRIEL):	Zigbee module	Trade Name (MARQUE):	N/A
HVIN :	APS2530H	FVIN :	Inverter_V3.0_F16
PMN :	APS2530H	HMN :	Energy control equipment

Tested By (TESTÉ A) :	BUREAU VERITAS ADT(Shanghai) Corporation	Test Site Registration Number (Numéro du site de test):	6392A
Address (adresse) :	No.829, Xin Zhuan Road, Song Jiang District Shanghai China (Peoples Republic Of)		
Email :	Zhaoqian.YU@cn.bureauveritas.com	Fax : 86-21-61957001	Tel : 86-21-61957001

[illegible]

"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 s'assure 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.

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.

Signature:

Leslie Bai

Director of Certification, Canadian Certification



Bureau Veritas Consumer Products Services, Inc.
775 Montague Expressway, Milpitas, CA 95035 USA
Tel: 408 526 1188. Fax: 408 526 1088

Website: <https://cpsusa-bureauveritas.com>, Email: sales.eaw@us.bureauveritas.com
Please check the validation of this certificate at [BV CPS Cert Validation Portal](#)

**BAY AREA COMPLIANCE LABORATORIES CORP.
INNOVATION, SCIENCE & ECONOMIC DEVELOPMENT CANADA
CERTIFICATE OF COMPLIANCE**

*Bay Area Compliance Laboratories Corp. (BACL) certifies that the apparatus detailed below
complies with all applicable requirements of the stated specifications*

Certificate Number: B1801179
Certification Number: 20481-ECUR
Certificate Holder: Altenergy Power System Inc.
No. 1, Yatai Road, Jiaxing Zhejiang 314050, China
Model Name/Number: ECU-R
Type of Equipment: Spread Spectrum/Digital Device (2400-2483.5 MHz), Wi-Fi Device
ISED Specifications: RSS-247, Issue 2, Feb 2017
Bay Area Compliance Laboratories Corp. (Kunshan)
No. 248 Chenghu Road, Kunshan Development Zone,
Kunshan, Jiangsu, China
Test Laboratory: Tel: +86 (512) 8617-5000, Fax: +86 (512) 8893-4268
ISED Test Lab O.A.T.S.: 3062E-1
ZigBee: 2405-2480 MHz
Frequency Range: Wi-Fi: 2412-2462 MHz, 2422-2452 MHz
ZigBee: 0.005 W
Wi-Fi: 0.047 W (802.11b), 0.038 W (802.11g),
Output Power (Conducted): 0.032 W (802.11n20), 0.03 W (802.11n40)
ZigBee: PR-SMA Dipole Antenna, 2.5 dBi
Antenna Information: Wi-Fi: FPC Antenna, 3.0 dBi
ZigBee: 2M60G1D
Emission Designation: Wi-Fi: 14M3G1D, 16M5D1D, 17M5D1D, 36M1D1D

Certification of equipment means only that the equipment has met the requirements of the above noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the 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 ISED/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 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'ISED.

Authorized by: *Daniel Deng*

Daniel Deng, Certifier

Bay Area Compliance Laboratories Corp.
1274 Anvilwood Avenue,
Sunnyvale, CA 94089, USA



Date of Issue: 2018-02-04

This document issued by Bay Area Compliance Laboratories Corp., ("BACL" or "Company"), is subject to its general conditions of service printed on the quotation, purchase order acknowledgement, or on the Product Certification Agreement and is available on request. We hereby notify you that those aforementioned documents contain details on the limitations of the liability, indemnification and jurisdiction issues defined therein. Anyone possessing this document is advised that information contained herein reflects the Company's results or findings at the conclusion of testing or services rendered only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of a duly authorized representative of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. The results, opinions or attestations shown in this document refer only to the sample(s) test and such sample(s).

CI008-E

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

15-210578

NUMÉRO DE CERTIFICAT

CERTIFICATION NUMBER

IC: 20481-APS2530P

NUMÉRO DE CERTIFICATION

TYPE OF SERVICE

New Single Certification (Modular Approval)

TYPE DE SERVICE

CERTIFICATE HOLDER

Altenergy Power System Inc.

TITULAIRE DU CERTIFICAT

No.1, Yatai Road, Jiaxing Zhejiang 314050

P.R. China

TYPE OF EQUIPMENT

Zigbee Module

GENRE DE MATÉRIEL

MODEL NUMBER

APS2530P

NUMÉRO DE MODÈLE

FREQUENCY RANGE

2405-2480 MHz

BANDÉ DE FRÉQUENCES

EMISSION DESIGNATION (TRC-43)

1M63G1D

DÉSIGNATION D'ÉMISSION (CRT-43)

R.F. POWER RATING (WATT)

0.0048W

PUISSANCE NOMINALE H.F (WATT)

ANTENNA INFORMATION

PCB Antenna, Gain: 0.8 dBi

INFORMATION D'ANTENNE

CONTACT INFORMATION OF TESTING LABORATORY

CCIC-SET

COORDONNÉES DU LABORATOIRE D'ESSAI

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

CERTIFIED TO
CERTIFIÉ SELON LE

SPECIFICATION / ISSUE
CAHIER DES CHARGES / ÉDITION

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

15-210579

CERTIFICATION NUMBER

NUMÉRO DE CERTIFICATION

IC: 20481-APS2530S

TYPE OF SERVICE

TYPE DE SERVICE

New Single Certification (Modular Approval)

CERTIFICATE HOLDER

TITULAIRE DU CERTIFICAT

Altenergy Power System Inc.

No.1, Yatai Road, Jiaxing Zhejiang 314050

P.R. China

TYPE OF EQUIPMENT

GENRE DE MATÉRIEL

Zigbee Module

MODEL NUMBER

NUMÉRO DE MODÈLE

APS2530S

FREQUENCY RANGE

BANDÉ DE FRÉQUENCES

2405-2480 MHz

EMISSION DESIGNATION (TRC-43)

DÉSIGNATION D'ÉMISSION (CRT-43)

1M63G1D

R.F. POWER RATING (WATT)

PUISSANCE NOMINALE H.F (WATT)

0.0048W

ANTENNA INFORMATION

INFORMATION D'ANTENNE

Ipex connector with Whip Antenna, Gain: 2 dBi

CONTACT INFORMATION OF TESTING LABORATORY

COORDONNÉES DU LABORATOIRE D'ESSAI

CCIC-SET

Electronic Testing Building, Shahe Road, Xili Town,

Nanshan District, Shenzhen Shenzhen, China

CERTIFIED TO

CERTIFIÉ SELON LE

SPECIFICATION / ISSUE

CAHIER DES CHARGES / ÉDITION

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

RSS-102 Issue 5

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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