

Date : 06/13/2022

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Attn: Thomas Shanahan

Re. : US US Certificate

Type of Equipment : Grid Support Utility Interactive Inverter
Model Designation : See Certificate
Certificate No. : US 72226018 0001
File No. : US22OTAY 001
Engineer/Contact : Liu Han
Standard(s) : UL 1741:2010 R2.18

Dear Mr. Shanahan,

The above referenced technical equipment has been tested and was found to be in compliance with the listed test requirement(s). Enclosed, please find the TUV Rheinland approval document No. US 72226018 0001. It authorizes you to label the listed product(s) with the TUV Rheinland Mark identified in the approval document. For compliance, the Test Mark must be on the approved unit.

Your product is subject to regular factory follow-up inspections as well as annual certificate and factory registration fees.

In using the TUV Rheinland Mark you are obligated to comply with the TUV Rheinland of North America Service Agreement.

If we can be of any further assistance to you, please do not hesitate to contact us.

Sincerely yours,
Certification Body

Dipl.-Ing. M. Glagla
QA Certification Officer

Enclosure

TUV Rheinland
of North America, Inc.

295 Foster St.
Suite 100
Littleton, MA 01460

Tel 978-266-9500
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Toll Free TUV-RHEINLAND
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Member of
TUV Rheinland Group

Certificate



Certificate no.

US 72226018 01

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS22OTAY 001

Client Reference: Thomas Shanahan

Tested to: UL 1741:2010 R2.18

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

Model Designation:

- 1) XGI 1500-125/125-UL; 2) XGI 1500-125/150-UL;
- 3) XGI 1500-150/166-UL; 4) XGI 1500-166/166-UL;
- 5) XGI 1500-125/125-3S; 6) XGI 1500-166/166-3S;
- 7) XGI 1500-125/125-UL-A; 8) XGI 1500-125/150-UL-A;
- 9) XGI 1500-150/166-UL-A; 10) XGI 1500-166/166-UL-A;
- 11) XGI 1500 250/250-600; 12) XGI 1500 225-600;
- 13) XGI 1500 200/200-480; 14) XGI 1500 175-480

Rated Voltage: DC 1500V max.

Operating Voltage Range: 1) -12) DC 860-1450V;
13)-14) DC 750-1450V

contd.

Appendix: 1, 1-40

Licensed Test mark:



Date of Issue
(day/mo/yr)

10/06/2022

Certificate



Certificate no.

US 72226018 02

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS220TAY 001

Client Reference: Thomas Shanahan

Tested to: UL 1741:2010 R2.18

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

contd.

Rated Current:

1)-2), 5), 7)-8) 148.3A max.; 3), 9) 178A max.;
4), 6), 10) 197.7A max.; 11) 296.7A max.; 12) 267A max.;
13) 237.1A max.; 14) 207.6A max.

Protection Class: I

Output Ratings:

1)-12) 3 AC 600V, 60Hz;
13)-14) 3 AC 480V, 60Hz
1), 5), 7) 120A max.; 2), 8) 144A max.;
3)-4), 6), 9)-10) 160A max.;
11)-14) 240.6A max.

contd.

Licensed Test mark:



Date of Issue

(day/mo/yr)

10/06/2022

Certificate



Certificate no.

US 72226018 03

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS22OTAY 001

Client Reference: Thomas Shanahan

Tested to: UL 1741:2010 R2.18

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

contd.

Max. Output Power:

1)-2), 5), 7)-8) 125kW; 3), 9) 150kW; 4), 6), 10) 166kW
11) 250kW; 12) 225kW; 13) 200kW; 14) 175kW

Rated Ambient Temperature: -40°C to 60°C

Enclosure Rating: Type 3R

Special Remarks: To be installed according to licensee's
installation instructions

Appendix: 1, 1-

Licensed Test mark:



Date of Issue

(day/mo/yr)

10/06/2022

Certificate



Certificate no.

US 72226018 04

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS22OTAY 003

Client Reference: Thomas Shanahan

Tested to: UL 1741:2021

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

Change:

Upgrade of standard for all models: see above

Special Remarks: Also evaluated to:

- 1) UL 1741 Edition 3 Supplement SB for grid interactive functions and IEEE 1547-2018 and IEEE 1547.1-2020
 - IEEE1547.1-2020: Normal Operating Performance B;
 - Abnormal Operating Performance III
- 2) UL 1741 Edition 3 Supplement SB for interoperability
 - IEEE 1547-2018 and IEEE 1547.1-2020:
Using SunSpec Modbus protocol

Appendix: 1, 1-40

Licensed Test mark:



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

30/01/2023

Certificate



Certificate no.

US 72226018 05

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS22OTAY 004

Client Reference: Thomas Shanahan

Tested to: UL 1741:2021

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

Addition:

Model Designation:

15) XGI 1500-250/250-600-DCG; 16) XGI 1500-225-600-DCG;
17) XGI 1500-200/200-480-DCG; 18) XGI 1500-175-480-DCG

Operating Voltage: 15)-16) 860-1450V;
17)-18) 750-1450V

Rated Current: 15) 296.7A; 16) 267A;
17) 237.1A; 18) 207.6A

contd.

Appendix: 1, 1-51

Licensed Test mark:



Date of Issue
(day/mo/yr)

06/11/2023

Certificate



Certificate no.

US 72226018 06

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS22OTAY 004

Client Reference: Thomas Shanahan

Tested to: UL 1741:2021

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

contd.

Output Ratings: 15)-16) 3 AC 600V, 60Hz;

17)-18) 3 AC 480V, 60Hz

Max. AC Current: 15)-18) 240.6A

Max. Output Power: 15) 250kW; 16) 225kW;

17) 200kW; 18) 175kW

Licensed Test mark:



Date of Issue

(day/mo/yr)

06/11/2023

Certificate



Certificate no.

US 72226018 07

License Holder:

Solectria Renewables LLC
360 Merrimack Street, Bldg. 9, 2nd
Lawrence MA 01843
USA

Manufacturing Plant:

Yaskawa America Inc
1067 Johnson Drive
Buffalo Grove IL 60089
USA

Test report no.: USA-LHUS22OTAY 005

Client Reference: Thomas Shanahan

Tested to: UL 1741:2021

Certified Product: Grid Support Utility Interactive Inverter

License Fee - Units

Addition:

Special Remarks:

Also evaluated to:

- 3) -UL 1741 Edition 3 Supplement SB for grid interactive functions, and:
 - IEEE 1547-2018 ,
 - IEEE 1547a-2020,
 - IEEE 1547.1-2020to the following SRDs:
 - Hawaiian Electric#s SRD V2.0
 - California Electric Rule No. 21

Appendix: 1, 1-5

Licensed Test mark:



Date of Issue

(day/mo/yr)

26/01/2024