



# Letter of Attestation

**Document:** 80203039

**Master Contract:** 203213

**Project:** 80203039

**Date Issued:** Jun 3, 2024

**Issued to:** Fronius International GmbH  
Guenter Fronius Strasse 1  
Wels-Thalheim,  
Upper Austria, 4600  
Austria  
Attention: Josef Feichtinger

*CSA Group hereby confirms that it has completed an evaluation of:*

*Transformerless Special Purpose Grid Support Interactive Inverter, Primo GEN24 3.8 208-240; Primo GEN24 3.8 208-240 Plus; Primo GEN24 5.0 208-240; Primo GEN24 5.0 208-240 Plus; Primo GEN24 6.0 208-240, Primo GEN24 6.0 208-240 Plus; Primo GEN24 7.7 208-240; Primo GEN24 7.7 208-240 Plus; Primo GEN24 10.0 208-240 and Primo GEN24 10.0 208-240 Plus permanently connected.*

*CSA Group hereby attests that the products identified above and described in test report 80203039 dated May 27, 2024*

*complies with the following standards/tests, to the extent applicable:*

*Common Smart Inverter Profile V2.1 with reference to SunSpec IEEE2030.5 Common Smart Inverter Profile  
(CSIP) Conformance Test Procedure VI.3*

*Issued by: Peter Lím*

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*CSA Group*

***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 CSA GROUP OR ITS REGISTERED TRADEMARK, IN ANY WAY, IS NOT PERMITTED WITHOUT PRIOR WRITTEN CONSENT OF CSA GROUP TESTING & CERTIFICATION INC.***

**MASTER CONTRACT:** 203213

**REPORT:** 80203039

**PROJECT:** 80203039

**Edition 1:** May 27, 2024; Project 80203039 - Richmond  
Prepared By: Peter Lim  
Authorized By: Peter Lim

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Appendix B - Testpack

## **PRODUCTS**

Transformerless Special Purpose Grid Support Interactive Inverter, Primo GEN24 3.8 208-240; Primo GEN24 3.8 208-240 Plus; Primo GEN24 5.0 208-240; Primo GEN24 5.0 208-240 Plus; Primo GEN24 6.0 208-240, Primo GEN24 6.0 208-240 Plus; Primo GEN24 7.7 208-240; Primo GEN24 7.7 208-240 Plus; Primo GEN24 10.0 208-240 and Primo GEN24 10.0 208-240 Plus permanently connected.

For detailed information regarding ratings and notes, please refer to Attachment Annex A Ratings.

## **APPLICABLE REQUIREMENTS:**

1. Common Smart Inverter Profile V2.1
2. SunSpec IEEE 2030.5 Common Smart Inverter Profile (CSIP) Conformance Test Procedures V1.3
3. Resolution E-5000 & E-5036.

## **MARKINGS**

Not Applicable. Attestation Project

## **ALTERATIONS**

Not Applicable

## **FACTORY TESTS**

Not Applicable

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**DESCRIPTION**

CSA Group hereby attests that the products identified above and described in test report 80203039 dated May 23, 2024 complies with the following standards/tests, to the extent applicable: Common Smart Inverter Profile V2.1 with reference to SunSpec IEEE2030.5 Common Smart Inverter Profile (CSIP) Conformance Test Procedure V1.3.

**DEVICE(S) UNDER TEST IDENTIFICATION.**

**Gateway Information:**

Product Type	CA Rule 21/CSIP DER Client
Product Name (Aggregator)	Sync 2310
Product Model	KIOE2300-M5
Product Object ID	DER-1072
Software Operation Environment Type	local
Software Name	Kalkitech SCT
Software Version	4.20.2 (07-14-2023)
Software Checksum	758A1927C28004EFDCB04693504D725B
Operating System	Windows 11
Operating System Version	10.0.22621

**Test Tool information:**

Tool Company	QualityLogic
Tool Name	IEEE2030.5 Client Tester - FTS
Tool Version	V4.0

**TEST SUMMARY**

As the gateway used by customer is certified by SunSpec (Bearing Sunspec Certificate Number CS-000031 <https://sunspec.org/wp-content/uploads/2020/12/SunSpec-ASE-certificate-CS-000031.pdf>) the compatibility testing is as part of IEEE2030.5 conformance testing of the gateway. According to the Resolution E-5000 & E-5036, the following SunSpec CSIP test procedures on the gateway while it is connected to the representative Fronius’s inverter model Primo GEN24 10.0 208-240 Plus. The test was conducted using the QualityLogic IEEE 2030.5 Test Harness which implements the test cases that are described in the CSIP Test Procedures document.

**TEST CONFIGURATION**

**Test Scope:**

The following tests were performed on inverter. For detailed test cases, refer to section 3.

- Inverter Status (BASIC-028)
- Inverter Meter Reading (BASIC-029)
- Basic Inverter Control – Volt/Var (BASIC-006)
- Basic Inverter Control – Fixed Power Factor (BASIC-008)
- Basic Inverter Control – Volt-Watt (BASIC -011)

**TEST ENVIRONMENT**

Temperature in the range 15°C to 35°C            Yes  
Relative humidity in the range 20% to 75%        Yes

**TEST PROCEDURES**

The test has been run on May 27, 2024, with QualityLogic Inc. IEEE2030.5 Conformance Test Program. The SunSpec approved QualityLogic Test tools used was the Version 4.0 release of Functional Test Suite Client Tester.

## **TEST RESULT**

### **Summary Convention**

The following "Result" convention is used in this summary.

<b>Result Items</b>	<b>Description</b>
PASS	All test cases that have been executed have passed.
FAIL	At least one test case has failed.
NOT APPLICABLE	The test case was not applicable to device under test

### **Summary of Test Results**

<b>Test Name</b>	<b>Test Description</b>	<b>Test Result</b>
BASIC-006	Basic Inverter Control (Volt/Var) [C, A, S]	PASS
BASIC-008	Basic Inverter Control (Fixed Power Factor) [C, A, S]	PASS
BASIC-011	Basic Inverter Control (Volt-Watt) [C, A, S]	PASS
BASIC-028	Inverter Status [C, A, S]	PASS
BASIC-029	Inverter Meter Reading [C, A, S]	PASS

## **TEST HISTORY**

Edition: 1 (Project 80203039)

This is an attestation report pertaining meeting Common Smart Inverter Profile V2.1 with reference to SunSpec IEEE2030.5 Common Smart Inverter Profile (CSIP) Conformance Test Procedure V1.3 and providing E-5000 & E-5036 Vendor Evidence Letter. All testing deemed necessary (See summary of test) meets the test requirements mentioned above.

---End of Report---