



Certificate of Compliance

Certificate: 70050250

Master Contract: 203213

Project: 80158406

Date Issued: 2023-02-18

Issued To: Fronius International GmbH
Guenter Fronius Strasse 1
Wels-Thalheim, Upper Austria, 4600
Austria

Attention: Josef Feichtinger

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: Peter Lim
Peter Lim



PRODUCTS

CLASS – 5311 09 - POWER SUPPLIES Distributed Generation Power Systems Equipment
CLASS – 5311 89 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards

Transformerless Special Purpose Grid Support Interactive Inverter, Model Fronius Symo 15.0-3 208, 3phase, permanently connected

For details related to rating and notes, reference should be made to the CSA Certification Record, the Descriptive Report or Annex A Ratings.



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APPLICABLE REQUIREMENTS

- | | | |
|--------------------------------|---|---|
| CSA-C22.2 No.107.1-16 | - | General Use Power Supplies |
| *UL Std No. 1741-Third Edition | - | Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Sources (Rev. September 28, 2021) |
| UL Std No 1741 CRD | - | Non-Isolated EPS Interactive PV Inverters Rated Less Than 30kVA (Dated April 26, 2010) |
| UL 1699B | - | Outline of Investigation for Photovoltaic (PV) DC Arc-Fault Circuit Protection (Issue Number 2, January 14, 2013) |
| CSA C22.2 No.290:19 | - | Photovoltaic combiners and recombiners (2 nd Edition, July 2019) |
| CSA C22.2 No.292-18 | - | DC Arc Fault Protection for Photovoltaic Applications |

***Note:** Conformity to UL 1741 - Third Edition (Rev. September 28, 2021 includes compliance with applicable requirements of UL1741 Supplement SA (SA8 to SA15) - GRID SUPPORT UTILITY INTERACTIVE INVERTERS AND CONVERTERS, California Rule 21(SRDs), Hawaiian Electric Co. Rule 14, Hawaiian Electric Co. SRD-UL-1741-SA-V1.0, IEEE 1547:2003, IEEE1547a and IEEE 1547.1:2005.

Notes:

Products certified under Class C531109 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 70050250

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*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
80158406	2023-02-18	Update report 70050250 to include alternate Fuseholder and AC Inductor alternate manufacturer.
80106343	2022-04-13	Update report 70050250 to include software bugfixes and some alternative components.
80048716	2020-07-30	Update report 70050250 to include new RECEBRO Firmware revision number for the increase in programing initialization timing from 80ms to 125 ms to accommodate hardware tolerances. The change on this parameter has no impact on grid tie and factory testing except factory programing's initialization timing. Assuming no testing is required.
80045327	2020-06-26	Update report 70050250 to include an alternate MCUs which is identical to the original model STM32F405 except alternate Micro STM32F407 has two additional features (I.e. Ethernet + camera interface which are not deployed), firmware version remains the same. Assume no further testing is deemed necessary.
70178843	2018-03-29	Update to report 70050250 to include alternate AC wire at transformerless Special Purpose Grid Support Interactive Inverter Model Fronius Symo 15.0-3 208, 3phase, permanently connected Update to report 70050250 to include alternate AC wire at transformerless Special Purpose Grid Support Interactive Inverter Model Fronius Symo 15.0-3 208, 3phase, permanently connected
70163422	2017-12-21	Update Report 70050250 to Evaluate Firmware Changes That Address Software Bugs Associated with Power Stage Changes Issues
70130883	2017-09-27	Update Symo Series Report 70050250 to include new UL1741 SA Visit 2; 3 weeks on site, September 4 -22)
70145289	2017-06-29	Update Report 70050250 to include alternative components
70118139	2017-01-31	Update to report 70050250 to include modification on Printed Wiring Board (ECOFIL15US) and alternate material and correct typographical errors.



70091562	2016-09-13	Update report 70050250 to include firmware revision and acceptance of test data under the CSA SMTC program.
70065236	2016-06-10	Update report 70050250 (SYMO 15KW) to include hardware alterations, roach firmware revision, and acceptance of CSA SMTC test data.
70050250	2015-11-13	Evaluation of SYMO 15kW (208Vac & 220Vac) for CSA C22.2 No 107.1-01 & UL1741 certification (including ULCRD for IMI & UL1699B for PV AFCI). Quote based on 2 weeks (10 days) of witness testing in Wels Austria, scheduled for Monday November 2 to Friday November 13, 2015. PO: Y/1379/15-2510-260033