



Certificate of Compliance

Certificate: 70189564

Master Contract: 203213

Project: 80034169

Date Issued: 2020-04-23

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

Attention: Christian Lehner

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 - 531109 - POWER SUPPLIES Distributed Generation Power Systems Equipment

CLASS - 531189 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards

Transformerless Special Purpose Grid Support Interactive Inverter.

Transformerless Special Purpose Grid Support Interactive Inverter, Models Fronius Symo Advanced 10.0-3 208-240, Fronius Symo Advanced 10.0-3 208-240 Lite, Fronius Symo Advanced 12.0-3 208-240, Fronius Symo Advanced 12.0-3 208-240 Lite, Fronius Symo Advanced 15.0-3 480, Fronius Symo Advanced 15.0-3 480 Lite, Fronius Symo Advanced 20.0-3 480, Fronius Symo Advanced 20.0-3 480 Lite, Fronius Symo Advanced 22.7-3 480, Fronius Symo Advanced 22.7-3 480 Lite, Fronius Symo Advanced 24.0-3 480, and Fronius Symo Advanced 24.0-3 480 Lite, permanently connected, system ratings as follows:

For details rating, please refer to the Appendix A rating table.



Certificate: 70189564
Project: 80034169

Master Contract: 203213
Date Issued: 2020-04-23

APPLICABLE REQUIREMENTS

CSA-C22.2 No.107.1-16	Power Conversion Equipment
UL Std No. 1741-Second Edition	Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Sources (Rev. February 15, 2018)
UL CRD	Non-Isolated EPS Interactive PV Inverters Rated Less Than 30kVA
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.330-17	Photovoltaic rapid shutdown systems (May 2017)
CSA C22.2 No.292 - 18	DC Arc Fault Protection for Photovoltaic Applications

***Notes:**

- (1) Conformity to UL 1741-Second Edition (Rev. February 15, 2018) includes compliance with applicable requirements of UL1741 Supplement SA - GRID SUPPORT UTILITY INTERACTIVE INVERTERS AND CONVERTERS, PVRSE, California Rule 21(SRDs), Hawaiian Electric Co. Rule 14, Hawaiian Electric Co. SRD-UL-1741-SA-V1.0, IEEE 1547, IEEE 1547a and IEEE 1547.1.
- (2) To fulfill the rapid shutdown requirements of the NEC Article 690.12 and CEC Sec 64-218 Photovoltaic system rapid shutdown with the Fronius Symo Advanced, the inverter can be used together with a suitable rapid shutdown device, or the inverter must be mounted within the boundary values given in the NEC and CEC Article. The ac output of the inverter complies with the requirements of following standards to ensure the ac conductors are within the controlled limits of 30Vdc, 15Vac and 8A within the 30s:
 - a. IEC62109-1:2010 §7.3.9
 - b. UL62109-1:2014 §7.3.9
 - c. CAN/CSA C22.2 No. 62109-1:16 §7.3.9
 - d. UL1741 2nd Edition (with SA 8 to 15 and PVRSE)
 - e. CAN/CSA C22.2 No. 107.1-16
 - f. CAN/CSA C22.2 No. 330-17



Supplement to Certificate of Compliance

Certificate: 70189564

Master Contract: 203213

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
80034169	2020-04-23	Update report 70189564 to include PVRSE listing for Fronius Symo Advanced models
80019505	2019-10-16	Update to report 70189564 to include an alternate current sensor in the AFCI
80008114	2019-07-12	To update report 70189564 include update to Zeus software (No implication on Cronos software related to grid tie). Also addition of a metal sheet to the front cover. Test to be performed under SMTC program.
000070200968	2018-11-22	CSA Update to report 70189564 to include new Kronos software for Transformerless Special Purpose Grid Support Interactive Inverter
000070189564	2018-08-01	cCSAus Model Certification for new PV Inverter model Advance Symo Series cCSAus Model Certification for new PV Inverter model Advance Symo Series