



# Certificate of Compliance

**Certificate:** 70189564

**Master Contract:** 203213

**Project:** 70200968

**Date Issued:** 2018-11-22

**Issued to:** **Fronius International GmbH**  
**Guenter Fronius Strasse 1**  
**Wels-Thalheim, 4600**  
**AUSTRIA**

*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:** *Thian (Peter) Lim*  
Thian (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.

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,

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



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### APPLICABLE REQUIREMENTS

- CSA-C22.2 No.107.1-16 - General Use Power Supplies
- \*UL Std No. 1741-Second Edition - Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Sources (Rev. September 7, 2016)
- 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 - 15 Photovoltaic combiners (December 2015)
- CSA C22.2 No.292 - 18 - DC Arc Fault Protection for Photovoltaic Applications

**\*Notes:**

- (1) Conformity to UL 1741-Second Edition (Rev. September 7, 2016) includes compliance with applicable requirements of UL1741 Supplement SA - 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, 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) §11
  - e. CAN/CSA C22.2 No. 107.1-16



## *Supplement to Certificate of Compliance*

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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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70200968	2018-11-22	Update report 70189564 to include new Kronos software for Transformerless Special Purpose Grid Support Interactive Inverter. Also added alternative capacitors and corrected component part numbering.
70189564	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