



# Certificate of Compliance

**Certificate:** 70050250

**Master Contract:** 203213

**Project:** 70163422

**Date Issued:** 2017-12-21

**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 - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment

CLASS - C531189 - 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, size, configuration, etc. reference should be made to the CSA Certification Record, Annex A, or the descriptive report.



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**Note:**

- (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 with the Fronius Symo models, the inverter must be mounted within the boundary values given in the NEC 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 (10s) :
  - 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

**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<br>UL 1699B              | - | Non-Isolated EPS Interactive PV Inverters Rated Less Than 30kVA Outline of Investigation for Photovoltaic (PV) DC Arc-Fault Circuit Protection (Issue Number 2, January 14, 2013) |
| CSA TIL M-07                    | - | Interim Certification Requirements for Photovoltaic (PV) DC Arc-Fault Protection (Issue Number 1, March 11, 2013)   |
| CSA-C22.2 No.290-15             | - | Photovoltaic combiners (December 2015)  |



## *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**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70163422	2017-12-21	Update Report 70050250 to Evaluate Firmware Changes That Address Software Bugs Associated with Filter Changes Issues (Guard $\mu$ C) and alternative components.
70130883	2017-09-27	Update Symo Series Report 70050250 to include new UL1741 SA.
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).