



Master Contract: 203213
Reports: 2708530, 2760387,
2779302, 70043714 & 70050250
Date: November 13, 2015

Fronius International GmbH
Guenter Fronius Strasse 1
Wels-Thalheim, 4600
Austria

Subject: Fronius International GmbH Utility Interactive Inverters with Adjustable Power Factor

All Fronius International GmbH. Renewable Energy Utility Interactive Inverter model series listed below are CSA Certified to UL 1741 2nd Edition, January 28, 2010 (RD IEEE 1547/1547.1). These products have been tested, are certified to, and meet the requirements for utility interactive operation inclusive of the following power factor ranges.

Model Series:

CSA Report Number	Utility Interactive Inverter Model Series	Power Factor Range
2708530	Fronius Galvo Series	+/- 0.85
2760387	Fronius Symo Series	+/- 0 to 1
2779302	Fronius Primo 1P7 Series	+/- 0.85
70043714	Fronius Primo 1P15 Series	+/- 0 to 1
70050250	Fronius Symo 15.0-3 208	+/- 0 to 1

Safety of the components, including heating effects, has been evaluated over the stated power factor ranges of adjustment. Standard UL 1741 Edition 2, January 28, 2010 (Rev. January 7, 2015), section 46 Utility Compatibility makes reference to IEEE 1547 and IEEE 1547.1; these Reference Documents (RD) are integral to UL 1741.



Below please find a list of the tests conducted for compliance to RD IEEE 1547/1547.1 that include power factor range of adjustment.

IEEE 1547.1	Applicable Requirement/Topic
IEEE 1547.1 Cl. 5.1	Temperature Test
IEEE 1547.1 Cl. 5.1	Output Characteristics Test
	Output Ratings
	DC Input Range
IEEE 1547.1 Cl. 5.7	Anti-Islanding Test
IEEE1547.1 Cl. 5.11	Harmonics

Yours truly,

A handwritten signature in black ink, appearing to be 'R. Hempstock'.

Robert Hempstock, AScT
Alternative Energy & Sustainability
CSA Group – Vancouver BC, Canada