



LETTER REPORT

Sparq

Scope of Works

PV Micro-inverter Q2000-4102 Characteristics of Utility Interface Testing

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TUV Rheinland of North America, Inc.
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Project No. 234192166

Mr. Shangzhi Pan
Sparq
945 Princess St. Box 212
Kingston, ON K7L 0E9, Canada

Email: span@sparqsys.com

Subject: PV Micro-inverter Q2000-4102 Characteristics of Utility Interface Testing

Dear Mr. Shangzhi Pan:

This letter report is to present the results of tests standard for the above equipment in accordance with the following standards:

- IEC 61727 Photovoltaic (PV) systems –Characteristics of the utility interface, 2nd Ed., dated 2004-12

The following tests have been performed and passed.

Clause	Test Description	Model	Pass/Fail
4.3	Flicker	Q2000-4102	Note
4.4	DC injection	Q2000-4102	N/A
4.6	Harmonics and waveform distortion	Q2000-4102	Pass
4.7	Power factor	Q2000-4102	Pass
5.2.1	Over/under Voltage	Q2000-4102	Pass
5.2.2	Over/under Frequency	Q2000-4102	Pass
5.3	Islanding protection	Q2000-4102	Pass
5.4	Response to utility recovery	Q2000-4102	Pass

Note: Flicker test will be included in the TUV EMC report.

If there are any questions regarding the results contained in this report, or any of the other services offered by TUV Rheinland of North America, Inc., please do not hesitate to contact the undersigned.

Please note, this letter report does not represent authorization for the use of any TUV Rheinland certification marks.

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