LETTER REPORT

Sparq

Scope of Works

PV Micro-inverter Q2000-4102 Environmental Testing

Report No. US22GKNR.001
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TUV Rheinland of North America, Inc.

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Letter Report

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08/05/2022 Report No. US22GKNR.001 Project No. 234192166

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

Subject: PV Micro-inverter Q2000-4102 Environmental Testing

Dear Mr. Shangzhi:

This letter report is to present the results of tests standard for the above equipment in accordance with the following standards with reference to the Intertek report 103902373GRR-001 dated April 23, 2019:

- IEC 60068-2-1 Environmental Cold
- IEC 60068-2-2 Environmental Dry Heat
- IEC 60068-2-14 Rapid Change of Temperature
- IEC 60068-2-30 Damp Heat Cyclic

The component replacement shall not adversely affect the test results after TUV engineer reviewed component ratings including storage temperature range and operating temperature range. It is concluded that the following test results still remain valid without any further tests:

- IEC 60068-2-1 Environmental Cold for storage(non-operating), operating
- IEC 60068-2-2 Environmental Dry Heat for storage (non-operating), operating
- IEC 60068-2-14 Rapid Change of Temperature
- IEC 60068-2-30 Damp Heat Cyclic

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.

Evaluated by:	Reviewed by:

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