Test Report - Products *Prüfbericht - Produkte*



 Test report no.:
 32295991.004
 Order No.:
 234208309
 Page 1 of 4

 Prüfbericht Nr.:
 Auftrags-Nr.:
 Seite 1 von 4

Client Reference No.: 2228455 Order date: 2023-10-11 Kunden-Referenz-Nr.: 2023-10-11

Client: Sparq

Auftraggeber:

Test item:Grid Support Utility Interactive PV micro-inverter

Prüfgegenstand:

Identification/ Type No.:

Bezeichnung / Typ-Nr. Q2000-4102

Order content:

Auftrags-Inhalt:

Update nameplate

Test specification:

Prüfgrundlage: UL1741:2021

C22.2 No.107.1-16

Date of sample receipt: N/A

Wareneingangsdatum:

Test sample No: N/A

Prüfmuster-Nr.:

Testing period: N/A

Prüfzeitraum:

Place of testing: See next page

Ort der Prüfung:

Testing laboratory: See next page

Prüflaboratorium:

Test result*: N/A

Prüfergebnis*:

geprüft von:

tested by: Zhiyong Hu

authorized by: Howard Liu

genehmigt von:

Date: 2023-10-13 **Issue Date:** 2023-10-13

Datum: Ausstellungsdatum:

Position / Stellung: Expert Position / Stellung: Manager

Other /

* Legend:

Update nameplate without any ratings change. No new certificate issued.

Condition of the test item at delivery:

Test item complete and undamaged

Zustand des Prüfgegenstandes bei Anlieferung:

P(ass) = passed a.m. test specification(s)

F(ail) = failed a.m. test specification(s) N

N/A = not applicable N/T = not tested

*Legende: P(ass) = entspricht o.g. Pr
undlage(n)F(ail) = entspricht nicht o.g. Pr
undlage(n)

N/A = nicht anwendbar

N/T = nicht getestet

This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vos rvielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.



TEST REPORT

UL 1741

Report No. 32295991.004

Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources

CSA C22.2 No. 107.1-16 Power conversion equipment

Report Number.....: 32295991.004 **Date of issue**.....: 2023-10-12

Total number of pages 4

Name of Testing Laboratory: TÜV Rheinland of North America, Inc.

Address: 295 Foster Street, Suite 100, Littleton, MA 01460

Applicant's name: Sparq

Address: 945 Princess St, Box 212, Kingston ON K7L 0E9, Canada

Test specification:

Standard: UL1741:2021, C22.2 No.107.1-16

Test procedure: CU mark

Non-standard test method: N/A

Test Report Form No. 2021-09-28

Test Report Form(s) Originator: TÜV Rheinland of North America, Inc.

Master TRF: Dated 2021-09-28

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Others: See cover page



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Report No. 32295991.004

Test item description::	Grid support Utility Interactive PV micro-inverter
Trade Mark::	SPARQ
Manufacturer:	Sparq, 945 Princess Street, Kingston ON K7L 0E9, Canada
Model/Type reference:	Q2000-4102
Ratings:	See copy of marking plate



Copy of marking plate:



QUAD Microinverter

(Grid Support Utility Interactive Inverter)

Conforms to UL Std 1741,1741SA, Rule21, Rule14H, Cert. to CSA Std.C22.2 #107.1



IEC 62109-1 IEC 62109-2

www.tuv.com ID 0007000000

DC Input (4 PV Panels*):

Voltage Range 20-60V Max Current 16A

P/N Q2000-4102

S/N Mfg. Date Config. Option









Hot Surface

rotection: IP67

AC Output:

Nominal Voltage 208V/230V/240V Nominal Current 8.2A/7.4A/7.1A Nominal Frequency 60Hz/50Hz Nominal Power 1720W

Power Factor 0 to +/- 0.999 Temperature -40 to +65°C

*Compatible with up to 680W+ modules. WARNING: Dual supply. Isolate both AC & DC before carrying out work. Hot surfaces. To reduce the risk of burns, do not touch. Environmental enclosure Type 6.

> ATTENTION: Contient courants CA et CC. Dèconnecter les circuits individuellement avant l'entretien. Surfaces chaudes. Ne pas touchez afin de réduire les risques de brûlures. Boitier environnemental normalisée Type 6.



Complies with CAN ICES-3

Contains FCC ID: QOQGM210P IC ID: 5123A-GM210P

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Report History

- 32295991.001 Original report, issued a new certificate CU72239343.
- 32295991.002 Added "UL 1741 Supplement SA for grid support functions" on a new certificate page.
- 32295991.003 Deleted one factory and added a new factory and issued a new certificate page.
- 32295991.004
 - o Updated nameplate by changing from "Compatible with up to 550W modules" to "Compatible with up to 680W+ modules".
 - No ratings changed.
 - No new certificate issued.

------End of Report------