Test Report - Products Prüfbericht - Produkte



Order No.: Test report no.: Page 1 of 4 32295992.003 234208309 Seite 1 von 4 Auftrags-Nr.: Prüfbericht Nr.:

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

Client: Sparq

Auftraggeber:

Test item: Grid Support Utility Interactive PV micro-inverter Prüfgegenstand:

Identification/ Type No.:

Bezeichnung / Typ-Nr. Q2000-4102

Order content: Update nameplate Auftrags-Inhalt:

Test specification:

IEC 62109-1:2010 (First Edition) Prüfgrundlage:

IEC 62109-2:2011

N/A Date of sample receipt:

Wareneingangsdatum:

Test sample No: N/A

Prüfmuster-Nr.:

N/A Testing period: Prüfzeitraum:

Place of testing: See next page

Ort der Prüfung:

See next page Testing laboratory:

Prüflaboratorium:

Test result*: N/A

Prüfergebnis*:

tested by: Zhiyong Hu authorized by: Howard Liu

geprüft von: genehmigt von:

Date: 2023-10-13 Issue Date: 2023-10-13 Datum: Ausstellungsdatum:

Position / Stellung: Position / Stellung: Expert Manager

Other /

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

vos rvielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

Condition of the test item at delivery:

Test item complete and undamaged

Zustand des Prüfgegenstandes bei Anlieferung:

F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

P(ass) = passed a.m. test specification(s) * Legend: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) 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

TÜV Rheinland of North America, Inc., 295 Foster St. Ste #100, Littleton MA 01460, USA

Report No. 32295992.003



TEST REPORT IEC 62109-1

Safety of Power Converter for use in Photovoltaic Power Systems Part 1: General requirements

IEC 62109-2

Safety of Power Converter for use in Photovoltaic Power Systems Part 2: Particular requirements for inverters

 Report Number......:
 32295992.003

 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

Test specification:

Standard: IEC 62109-1:2010 (First Edition), IEC 62109-2:2011

Test procedure: T mark

Non-standard test method: N/A

Test Report Form No.: IEC62109_1B

Test Report Form(s) Originator: VDE Testing and Certification Institute

Master TRF: Dated 2016-04

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Others: See cover page



Page 3 of 4

Report No. 32295992.003

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. Déconnecter 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

- 32295992.001 Original report, a new certificate T72228212 issued.
- 32295992.002 Deleted one factory and added a new factory. A new certificate page issued.
- 32295992.003
 - Updated nameplate by changing from "Compatible with up to 550W modules" to "Compatible with up to 680W+ modules".
 - o No ratings changed.
 - o No new certificate issued.

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