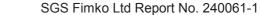


## **TEST REPORT**

## IEC 62040-1-1 and/or EN 62040-1-1

Uninterruptible power systems (UPS) –
Part 1-1: General and safety requirements for UPS used in operator access areas

Report reference No :	240061-1
Tested by (printed name, title and signature):	Jens Köchel Project Manager Timo Silonsaari  Timo Silonsaari
Approved by (printed name, title and signature):	Timo Silonsaari Specialist
Date of issue:	16.02.2006
Testing Laboratory Name:	SGS Fimko Ltd
Address:	Särkiniementie 3 (P.O.Box 30), FI-00210 Helsinki, Finland
Testing location:	CBTL ☑ CCATL ☐ SMT ☐ TMP ☒
Address	Särkiniementie 3 (P.O.Box 30), FI-00210 Helsinki, Finland
Sub-contractors used	Tests/clauses
Name:	-
Address:	-
Applicant's Name:	Eaton Power Quality Oy
Address	PL 54, FI-02921 Espoo, Finland
Manufacturer's Name:	Eaton Power Quality Oy
Address:	Koskelontie 13, FI-02920 Espoo, Finland
Factory's Name:	Same as manufacturer
Address	
Test specification	
Standard:	IEC 62040-1-1:2002 (1 <sup>st</sup> Edition) EN 62040-1-1:2003
Test procedure:	CB-scheme
Non-standard test method:	•
Test Report Form No:	IECEN62040_1_1A (modified by SGS Fimko Ltd 2004-01)
TRF originator:	SGS Fimko Ltd (for IEC62040_1_1A)
Master TRF:	
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Test item description:	UPS
Trademark:	POWERWARE
Model and/or type reference:	9355-30-N-13 and 9355-20-N-22
Serial number	-
Rating(s)	See page 2



TRF originator: SGS Fimko



Copy of marking plate

See Annexes 1 - 2 for copy of marking plates.

Ratings: 30 kVA model

Input: 3/PE 400 V 50 Hz 43 A By-pass Input: 3/N/PE 400 V 50 Hz 43 A

Battery: DC 432 V 9 Ah 90 A (or 7 Ah)

Output: 3/N/PE 400 V 50 Hz 43 A

30 kVA 27 kW

20 kVA model

Input: 3/PE 400 V 50 Hz 29 A By-pass Input: 3/N/PE 400 V 50 Hz 29 A

Battery: DC 432 V 9 Ah 60 A (or 7 Ah)

Output: 3/N/PE 400 V 50 Hz 29 A

20 kVA 18 kW

## Summary of testing:

Temperature rise tests have been carried out at the manufacturer's premises using their calibrated equipment:

- Temperature recorder Yokogawa DR230, inv. No. TU0708, cal. 28.04.2005.
- Temperature recorder Yokogawa DR230, inv. No. TU0845, cal. 06.11.2005.
- Powermeter Yokogawa WT130, inv. No. TU 0560, cal. 16.12.2004 and inv. No. TU 0506, cal. 16.12.2004

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"Powerware" has been specified by he manufacturer to be the trademark for the UPS.

Part of the test results for the fault condition test has been copied from testing of model PW9155/9355 with up to 15 kVA, test report no. 235169, dated 21.12.2004, issued by SGS Fimko. The components and their function are same as in the 30 kVA model, while their designation and place have been changed.

Testing has been carried out partly under TMP agreement.

TRF No.: IECEN62040\_1\_1A (modified by SGS Fimko Ltd 2004-01)