

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
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 <input checked="" type="checkbox"/> CCATL <input type="checkbox"/> SMT <input type="checkbox"/> TMP <input checked="" type="checkbox"/>
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 st 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	: dated 2004-01
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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

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

“Powerware” has been specified by the 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.