



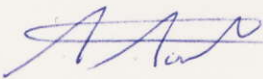
Certificate of Test

Issued to: MSB Storage Battery Manufacturing S/B
Item Tested: Ultra Valve Regulated Lead-acid Batteries
Models: MS12-100 and MS2-300
No. of Samples Tested: 18 batteries of each model

The sample batteries were evaluated on 5 test procedures specified in IEC 896-2: 1995. The test schedules and results are tabulated below:

Test Number	Schedule	Result	
		MS12-100	MS2-300
1	Capacity test (Clause 5.1)	Conformity	Conformity
2	Test of suitability for float battery operation (Clause 5.2)	Conformity	Conformity
3	Test for endurance in discharge/charge cycles (Clause 5.3)	34 cycles	66 cycles
4	Test for charge retention (Clause 5.4)	Conformity	Conformity
5	Test (Clause 5.5) - short circuit current - internal resistance	2170 A 5.79 mohm	3450 A 0.613 mohm

For tests (Numbers 1, 2 and 4) where the IEC Standard requires a result at least in agreement with the manufacturer's claimed performance in published literature, the samples conformed. Where only the test result needed to be recorded (Test Numbers 3 and 5) the average values are tabulated above.

Signed: 
A Austin
Principal Engineer

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MSB Storage Battery Manufacturing S/B
No. 2a, Jalan TPP 5/2
Taman Perindustrian
Puchong
Section 5, 47100 Puchong
Selangor Darul Ehsan
Malaysia



ITS Testing & Certification Ltd

ITS House, Cleeve Road, Leatherhead, Surrey KT22 7SB

Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370999

Registered No. 3272281 Registered office: 25 Savile Row, London W1X 1AA

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