

Annex B (normative)



Supplier statement of product range test results

1) General product type information					
Product manufacturer	Exide Technologies				
Manufacturing site of tested product	Castanheira, Portugal				
Product name	Marathon				
Product model range	Marathon L/Marathon XL				
Product comprising the above model range	See brochure "Marathon L/XL"				
Product tested	Various, most critical models as representatives for entire range. Type specific data were measured on individual models.				
2) Product test performance information					
Product safe operation in service			IEC 60896-21 test clause result		
6.1	Gas emission (at float voltage and at 2.40 Vpc)	2.27 Vpc: 0.0011 mL/h/cell/Ah; 2.40 Vpc: 0.034 mL/h/cell/Ah			
6.2	High current tolerance	Compliant (>2.0 Vpc; no damage)			
6.3	Short circuit current and d.c. internal resistance	Data published in technical brochure			
6.4	Internal ignition from external spark sources	Compliant			
6.5	Protection against ground short propensity	Compliant			
6.6	Content and durability of required markings	Compliant			
6.7	Material identification	Compliant			
6.8	Valve operation	Compliant			
6.9	Flammability rating of materials	Case	UL 94-V0 or HB	Cover	UL 94-V0 or HB
UL file: MH47338					
6.10	Intercell connector performance	Compliant (max. Temperature 50°C)			
Product performance in service			IEC 60896-21 test clause result		
6.11	Discharge capacity	Data for	C ₁₀	C ₈	C ₃
			103,3	108,1	101,5
			C ₁	C _{0,25}	
			108,3	109,0	
6.12	Charge retention during storage	Compliant (C _{ff} > 80%)			
6.13	Float service with daily discharges	> 1000 cycles (tested Marathon XL)			
6.14	Recharge behaviour	24 h	Compliant 1.03	168 h	Compliant 1.02
Product durability in service			IEC 60896-21 test clause result		
6.15	Float service life at 40°C	> 944 days			
6.16	Impact of a stress temperature of 55°C or 60°C	> 500 days @ 55°C			
6.17	Abusive over-discharge	Caod: 0.86	Caoc: 1,01		
6.18	Thermal runaway sensitivity	Compliant < 40°C at 2.6 Vpc			
6.19	Low temperature sensitivity	Cals = 0.98 no damage			
6.20	Dimensional stability at elevated internal pressure and temperature	compliant 0.8% - 1.8mm			
6.21	Stability against mechanical abuse of units during installation	Compliant			
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Signature/date/place:		Ago 25th, 2014			
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NOTE The data in above Product Range Test Result Supplier Statement must comply with the test methods and degree of detail specified in the requirements 6.1 to 6.21 of the IEC 60896-21 and 60896-22.