

**TEST REPORT**

1.0	Service Request / Job No:	SRF No	
2.0	Test Requested By: (Organization Name & Address)	M/S Sparco Batteries Pvt.Ltd. Killa No:22, Khashra No: 23/1/2 Village Nathupur. Sonipat.	
3.0	Description of Unit Under test (UUT):	Description:	TUBULAR
		Rating:	12V/120AH
		Model No:	AL-120
		Serial No:	
4.0	Date of Receipt of Sample: (start date)		
	Date of Completion of test		
5.0	Condition of UUT on receipt:	Dry Charge Battery	
	No. Of sample Tested:	4	
6.0	Test Site:	On site	
	Environment Conditions:	42°C	
	Temperature: 25°C+-5% Humidity 40 to 95% RH	82%	
7.0	Applicable Standards / Specifications:	Test Method:	IEC 60896

Major Measuring Instrument and Traceability:

S.No	Description	Make/Model	S.No. of Instrument	Calibration validity	Calibration Agency
1	Discharger	ADOS/12V-35Amp	131014-1		
2	Charger	ADOS/12/24V-20Amp	D600202K-1		
3	Digital Multi Meter	Mastech/MS2 101	994995570		
4	Digital Clamp Meter	Mastech/MS2 101	994995570		
5	High rate discharge unit	ADOS/12V-1500Amp	160117		

**Sparco DS Global LLP**

Test Report No:	Description: 12V/120AH	Serial No:
	TUBULAR Battery	Model: AL 120

Test Result:

S.no	Specification Requirement	Serial Number					
Test Description		32	33	34	35	36	37

01	(a)	Content and of required markings Cell or battery shall be clearly and permanently marked with required information. / Information shall remain readable after exposure to chemicals and remain in place.	Readable	Readable	Readable	Readable	Readable	Readable												
	(b)																			
02	(a)	Material Identification The plastic materials used for the units are clearly identified with the ISO 1043-1 material symbol and legible throughout the service life.	Ok	Ok	OK	OK	OK	OK												
03	(a)	Discharge capacity The actual capacityCshall be greater than or equal to 95% of the rated capacity. Cof the 6 units tested with the following rates to the following end voltage. <table><tr><td>Capacity</td><td>Rate</td><td>End voltage</td></tr><tr><td>C10</td><td>10 h</td><td>1.80 Vpc</td></tr><tr><td>C8</td><td>8 h</td><td>1.75 Vpc</td></tr><tr><td>C3</td><td>3 h</td><td>1.70 Vpc</td></tr></table>	Capacity	Rate	End voltage	C10	10 h	1.80 Vpc	C8	8 h	1.75 Vpc	C3	3 h	1.70 Vpc						
Capacity	Rate	End voltage																		
C10	10 h	1.80 Vpc																		
C8	8 h	1.75 Vpc																		
C3	3 h	1.70 Vpc																		
04	(a)	Charge retention during storage. The charge retention factor,C of the 6 unitstested, shall be greater than or equal to 70%.	72%	71%	74%	72%	71%	73%												

Tested By:
(Quality Engineer)

Authorized By:
(Technical Head)



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	TUBULAR Battery	Model:AL 120

Test Result:

S.no	Specification Requirement	Serial Number					
	Test Description	32	33	34	35	36	37

05	Recharge Behaviour The recharge behaviour factor Rbf , after 24h of charge shall be greater than or equal to 90%. The recharge behaviour factor, Rbf , after 168h of charge shall be greater than or equal to 98%.	96%	96%	98%	98%	97%	98%
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Tested By:
(Quality Engineer)

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