

**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:	VRLA
		Rating:	12V/180AH
		Model No:	ATC 180
		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:	35°C	
	Temperature: 25°C+5% Humidity 40 to 95% RH	83%	
7.0	Applicable Standards / Specifications:	Test Method:	IEC 60896-21

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		



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Test Report No:	Description: 12V/180AH VRLA Battery	Serial No:
		Model: ATC 180

Test Result:

S.no		Specification Requirement	Serial Number																							
Test Description			22	23	24	25	26	27																		
01	(a) (b)	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	Readabl e																		
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><th>Capacity</th><th>Rate</th><th>End voltage</th></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><tr><td>C1</td><td>1 h</td><td>1.60 Vpc</td></tr><tr><td>C0.25</td><td>0.25h</td><td>1.60 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	C1	1 h	1.60 Vpc	C0.25	0.25h	1.60 Vpc						
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C1	1 h	1.60 Vpc																								
C0.25	0.25h	1.60 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%	73%	72%	74%	73%																		

Tested By:
(Quality Engineer)

Authorized By:
(Technical Head)



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	VRLA Battery	Model:ATC180

Test Result:

S.no	Specification Requirement	Serial Number					
	Test Description	22	23	24	25	26	27

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%.	98%	96%	97%	98%	97%	98%
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