



TEST REPORT

1.0	Description of Unit Under test (UUT):	Description:	TUBULAR
		Rating:	12V/180AH
		Model No:	AL-180
		Serial No:	
2.0	Date of Receipt of Sample: (start date)		
	Date of Completion of test		
3.0	Condition of UUT on receipt:	Dry Charge Battery	
	No. Of sample Tested:	4	
4.0	Test Site:	On site	
	Environment Conditions:	39°C	
	Temperature: 25'C+-5% Humidity 40 to 95% RH	82%	
5.0	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/MS2101	994995570		
4	Digital Clamp Meter	Mastech/MS2101	994995570		
5	High rate discharge unit	ADOS/12V-1500Amp	160117		



Test Report No:	Description: 12V/180AH TUBULAR Battery	Serial No:
		Model: AL 180

Test Result:

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

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 capacity C shall be greater than or equal to 95% of the rated capacity. C of the 6 units tested with the following rates to the following end voltage. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Capacity</th> <th>Rate</th> <th>End voltage</th> </tr> </thead> <tbody> <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> </tbody> </table>	Capacity	Rate	End voltage	C10	10 h	1.80 Vpc	C8	8 h	1.75 Vpc	C3	3 h	1.70 Vpc						
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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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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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