

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

P.B.No. 8066, Sadashivanagar Post Office,

Sir C.V. Raman Road,

Bangalore – 560 080 (INDIA)



CPRI

CENTRAL POWER RESEARCH INSTITUTE

Sheet 1 of 3

TEST REPORT

Test Report Number : 518EATDBT11S0085-S0086 **Dated** : 20..09.11

Name & Address of the Customer : M/s Autobat Accumulators Pvt. Ltd
Plot No. 10&11, S.No.36/1/1
Near Hotel Green Field,
Wadgan Khurd, Sinhagad Road
PUNE - 411 041

Name & Address of the Manufacturer : M/s Autobat Accumulators Pvt. Ltd
Plot No. 10&11, S.No.36/1/1
Near Hotel Green Field,
Wadgan Khurd, Sinhagad Road
PUNE - 411 041

Particulars of sample tested
Condition of the sample on Receipt : New
Type : 12V- 75 Ah
Designation : Tubular Battery (AUTOBAT)
Serial Number : 13071109, 13071110
Number of Samples Tested : Two
Date(s) of test (s) : 03.08.11 to 14.09.11
CPRI Sample Code No : EATDBT11S0085-S0086

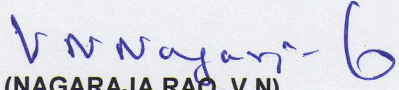
Particulars of test Conducted
Test in accordance with
Standard/ Specification : As per IS: 13369 -1992 (Reaffirmed1997)
Sampling Plan : Not Applicable
Customer's requirement : --- Nil ---
Deviations if any : --- Nil ---

Names of the witnessing persons
Customer's representatives : --- Nil ---
Other than Customer's representatives : --- Nil ---
Test Subcontracted with
address of the laboratory : None

Documents constituting this report
(In words)
Number of sheets : Three Only
Number of oscillograms : --- Nil ---
Number of graphs : --- Nil ---
Number of photos : --- Nil ---
Number of Test circuit Diagrams : --- Nil ---
Number of drawings : --- Nil ---


(A.LOURDHUNADHAN)
Test Engineer




(NAGARAJA RAO. V.N)
Joint Director



CPRI

CENTRAL POWER RESEARCH INSTITUTE

Sheet 2 of 3

Test Report No. 518EATDBT11S0085-S0086

Dated : 20.09.11

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained																			
1.	Test for Capacity	Clause 11.5: The Battery shall reach not less than 85 percent of the rated capacity at the first discharge and the rated capacity of 75Ah shall be reached within 10 discharges subsequent to initial charge.	The capacity of the Batteries at 27°C are given below: <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">S0085</th> <th style="text-align: center;">S0086</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">First Cycle</td> <td style="text-align: center;">83.34 Ah</td> <td style="text-align: center;">58.24 Ah</td> </tr> <tr> <td style="text-align: center;">Second Cycle</td> <td style="text-align: center;">--</td> <td style="text-align: center;">72.97 Ah</td> </tr> <tr> <td style="text-align: center;">Third Cycle</td> <td style="text-align: center;">--</td> <td style="text-align: center;">87.44 Ah</td> </tr> </tbody> </table>			S0085	S0086	First Cycle	83.34 Ah	58.24 Ah	Second Cycle	--	72.97 Ah	Third Cycle	--	87.44 Ah						
	S0085	S0086																				
First Cycle	83.34 Ah	58.24 Ah																				
Second Cycle	--	72.97 Ah																				
Third Cycle	--	87.44 Ah																				
2.	Ampere- hour & Watt-hour efficiency	Clause 11.8: 1. The Ampere-hour efficiency shall not be less than 90 percent 2. The Watt-hour efficiency shall not be less than 75 percent	<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Ampere- hour efficiency</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">S0085</td> <td colspan="2" style="text-align: center;">95.45 %</td> </tr> <tr> <td style="text-align: center;">S0086</td> <td colspan="2" style="text-align: center;">94.86 %</td> </tr> <tr> <th colspan="3" style="text-align: center;">Watt-hour efficiency</th> </tr> <tr> <td style="text-align: center;">S0085</td> <td colspan="2" style="text-align: center;">81.25 %</td> </tr> <tr> <td style="text-align: center;">S0086</td> <td colspan="2" style="text-align: center;">79.56 %</td> </tr> </tbody> </table>		Ampere- hour efficiency			S0085	95.45 %		S0086	94.86 %		Watt-hour efficiency			S0085	81.25 %		S0086	79.56 %	
Ampere- hour efficiency																						
S0085	95.45 %																					
S0086	94.86 %																					
Watt-hour efficiency																						
S0085	81.25 %																					
S0086	79.56 %																					
3.	Test for loss of capacity on storage	Clause 11.6: The loss of capacity of the Battery shall not exceed 10 percent.	The Loss of Capacity for the batteries are : <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;">S0085</td> <td style="text-align: center;">7.11%</td> </tr> <tr> <td style="text-align: center;">S0086</td> <td style="text-align: center;">7.61%</td> </tr> </tbody> </table>		S0085	7.11%	S0086	7.61%														
S0085	7.11%																					
S0086	7.61%																					

Test Engineer