

National Institute of Solar Energy
(Formerly known as Solar Energy Centre)
(An autonomous institute of Ministry of New & Renewable Energy)
Village & Post-Gwalpahari, Dist.-Gurgaon, (Haryana), Pin - 122003
Ph. 0124-2579251 (CSC), Fax: 0124-2579207

2017-2018

TEST REPORT ON BATTERY

Sample ID No. 15/17/BT

**Manufactured by: M/s Eastman Auto & Power Ltd., Tehsil-Nalagarh,
Solan, H.P.-174101**

**Submitted by : M/s Eastman Auto & Power Ltd., 547, Udyog Vihar,
Phase-V, Gurgaon-122016, Haryana**

This is a report on measurements of **Capacity rating, Charge efficiency & Self Discharge** carried out on the Battery (sample no. 15/17/BT) submitted at National Institute of Solar Energy as per **IS 13369:1992** standard. **The data reported in this TEST REPORT are valid at the time of and under the stipulated conditions of measurement and the test results are applicable to this battery only and do not apply to other batteries even though declared to be identical.** The data contents in this report do not constitute a qualification test certificate. NISE does not accept any liability for any consequences including commercial or otherwise arising out of the utilization of the information contained in this report.

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Sharma
25/10/2017
Sharma
24/10/2017

B Singh
24/10/17

Rajesh Kumar
24/10/17

Test Report No.	Total No. of pages	Page No.
15/17/BT/NISE	3	1



TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 15/17/BT

**Manufactured by: M/s Eastman Auto & Power Ltd., Tehsil-Nalagarh,
Solan, H.P.-174101**

**Submitted by : M/s Eastman Auto & Power Ltd., 547, Udyog Vihar,
Phase-V, Gurgaon-122016, Haryana**

S.No	Test Description	Manufacture's Claim	Observations	Remarks
1	(I) Brand/Model (ii) Type (iii) S.No. (iv) Year (v) Rating (a) Voltage (b) Capacity at C/10 discharge rate	ADDO/EA150SB Tubular Lead Acid PY10683787 2016 12V 150Ah	ADDO/EA150SB Tubular Lead Acid PY10683787 2016 12V 155.90Ah	cut off voltage 10.8 V
2	Charging Efficiency: (A) Capacity on discharging at (C/10) constant current continuously up to cut off voltage. (B) Capacity after recharging the battery by 162.08Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		162.08Ah 147.75Ah 91.16% & 77.39%	Average Charging Voltage = 13.9V Average discharging voltage = 11.8V

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P. Jeyaraj
24/10/17

Test Report No.	Total No. of pages	Page No.
15/17/BT/NISE	3	2



3	Self-discharge test: (A) Initial Capacity measured as per IS 13369:1992 (B) Final Capacity after keeping 28 days at 27 ± 5 deg.C temperature. (C) Self Discharge (%)	155.18Ah 145.19Ah 6.44%
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Tested & Prepared By:

Bipin Kumar Sharma

Date: 24/10/2017

B Sharma

Checked By:

Rashmi Singh

Date: 24/10/17

R Singh

Approved By:

Dr. Rajesh Kumar

Date:

Rajesh Kumar
24/10/17

Issued By:

Name:

Date:

S Kumar
28/10/2017



Test Report No.	Total No. of pages	Page No.
15/17/BT/NISE	3	3