

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. 22/17/BT

Manufactured by: M/s Eastman Auto & Power Ltd., Tehsil-Nalagarh,
Solan, H.P.-174101Submitted 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. 22/17/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.

The Test Report, if reproduced for any purpose, commercial or otherwise, should be reproduced in full. The contents of the report can be published only after a written approval from the Director General, NISE. This report consists of 3 pages.

Sharma
24/10/2017

R Singh
24/10/17

Rajesh Kumar
24/10/17

95 Raveh
28/10/2017



Test Report No.	Total No. of pages	Page No.
22/17/BT/NISE	3	1

TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 22/17/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	Eastman/EM200SB Tubular Lead Acid 00002 2017 12V 200Ah	Eastman/EM200SB Tubular Lead Acid 00002 2017 12V 217.53Ah	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 217.15Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		217.15Ah 198.45Ah 91.39% & 78.72%	Average Charging Voltage = 13.7V Average discharging voltage = 11.8V

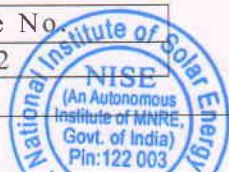
Sharma
24/10/2017

R Singh
24/10/17

Rajendra Kumar
24/11/17

Sharma
25/11/2017

Test Report No.	Total No. of pages	Page No.
22/17/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 (%)	205.04Ah 200.33Ah 2.30%
---	---	---------------------------------------

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:

Shruti
25/10/2017



Test Report No.	Total No. of pages	Page No.
22/17/BT/NISE	3	3