

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. 19/17/BT

Manufactured by: M/s Eastman Auto & Power Ltd., Tehsil-Nalagarh,
Solani, 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. 19/17/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

Sharma
25/10/2017



Test Report No.	Total No. of pages	Page No.
19/17/BT/NISE	3	1

TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 19/17/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/EM100SB Tubular Lead Acid PV11687644 2017 12V 100Ah	Eastman/EM100SB Tubular Lead Acid PV11687644 2017 12V 107.33Ah	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 111.01Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		111.01Ah 100.46Ah 90.50% & 78.04%	Average Charging Voltage =13.8V Average discharging voltage =11.9V

S. Sharma
24/10/2017

R. Singh
24/10/17

R. J. Kumar
24/10/17

S. K. Singh
28/10/2017

Test Report No.	Total No. of pages	Page No.
19/17/BT/NISE	3	2



3	Self-discharge test:	
	(A) Initial Capacity measured as per IS 13369:1992	106.65Ah
	(B) Final Capacity after keeping 28 days at 27 ±5 deg.C temperature.	96.09Ah
	(C) Self Discharge (%)	9.90%

Tested & Prepared By: *B Sharma*

Bipin Kumar Sharma

Date: *24/10/2017*

Checked By: *RSingh*

Rashmi Singh

Date: *24/10/17*

Approved By: *Rajesh Kumar*

Dr. Rajesh Kumar

Date:

Rajesh Kumar
24/10/17

Issued By: *Rashmi Singh*

Name:

Date:

Rashmi Singh
24/10/2017



Test Report No.	Total No. of pages	Page No.
19/17/BT/NISE	3	3