

National Institute of Solar Energy
(Formerly known as Solar Energy Centre)
(An autonomous institute of Ministry of New & Renewable Energy)
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2017-2018

TEST REPORT ON BATTERY

Sample ID No. 20/17/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. 20/17/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
24/10/2017

R Singh
24/10/17

Rajeev Kumar
24/10/17

S Raveer
25/10/2017

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TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 20/17/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/EM120SB Tubular Lead Acid 00006 2017 12V 120Ah	Eastman/EM120SB Tubular Lead Acid 00006 2017 12V 139.41Ah	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 132.61Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		132.61Ah 123.33Ah 93.0% & 80.1%	Average Charging Voltage = 13.7V Average discharging voltage = 11.8V

Sharma
24/10/2017

R Singh
24/10/17

P. K. Sharma
24/10/17

S. Singh
24/10/2017

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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 (%)		122.83Ah 114.50Ah 6.8%
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Tested & Prepared By: *B Sharma*
 Bipin Kumar Sharma
 Date: *24/10/2017*

Checked By: *R Singh*
 Rashmi Singh
 Date: *24/10/17*

Approved By: *Rajesh Kumar*
 Dr. Rajesh Kumar
 Date: *24/10/17*

Issued By: *Ramesh*
 Name:
 Date: *25/10/2017*



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