

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. 68/17/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, Efficiency & Self Discharge** carried out on the Battery (sample no. 68/17/BT) submitted at National Institute of Solar Energy as per **IS 15549:2005** 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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Baherma
31/05/18

R. Singh
31/05/18

[Signature]



TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 68/17/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/E165G Tubular Gel 3 - 12V 150Ah | Eastman/E165G Tubular Gel 3 - 12V 164.5Ah | cut off voltage 10.5 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 163.9Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh | | 163.9Ah 158.1Ah 96.5% & 84.7% | Average Charging Voltage = 13.9V Average discharging voltage = 12.2V |

Bhargava
3/10/18

Singh
3/10/18

[Signature]



| | | | | |
|---|--|--|---------------------------------------|--|
| 3 | Self-discharge test: (A) Initial Capacity measured as per IS 15549:2005 (B) Final Capacity after keeping 28 days at 27 ±5 deg.C temperature. (C) Self Discharge (%) | | 155.05Ah 150.39Ah 3.01% | |
|---|--|--|---------------------------------------|--|

The Himachal Pradesh State Pollution Control Board's consent for manufacturing batteries by M/s Eastman Auto & Power Ltd., Tehsil-Nalagarh, Solan, Himachal Pradesh has been expired on 31-03-2018.

Sharma
31/05/18
Tested & Prepared By:
Bipin Kumar Sharma
JRS

Singh
31/05/18
Checked By:
Rashmi Singh
JRS

[Signature]
Approved By:
Er. Sanjay Kumar
D.D.G., NISE

[Signature]
Issued By:
Name:
Designation:

