

**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. 62/17/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. 62/17/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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*Sharma*  
10/04/2018

*B Singh*  
10/4/18



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## TEST REPORT OF LEAD ACID BATTERY

**Sample ID No. 62/17/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) <b>Rating</b> (a) Voltage (b) <b>Capacity</b> at C/10 discharge rate	Eastman/E115G Tubular Gel 201QL7BCEK9S04662 - 12V 100Ah	Eastman/E115G Tubular Gel 201QL7BCEK9S04662 - 12V 104.77Ah	cut off voltage 10.5 V
2	<b>Charging Efficiency:</b>  (A) Capacity on discharging at (C/10) constant current continuously up to cut off voltage.  (B) Capacity after recharging the battery by <b>106.5Ah</b> and then again discharging up to cut off voltage.  (C) Efficiency-Ah & Wh		106.5Ah   103.14Ah   96.85% & 84.23%	Average Charging Voltage = <b>13.97V</b>   Average dischargin g voltage = <b>12.15V</b>

*Sharma*  
10/04/2018

*R Singh*  
10/04/18



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3	<b>Self-discharge test:</b>  <b>(A)</b> Initial Capacity measured as per IS 15549:2005  <b>(B)</b> Final Capacity after keeping 28 days at $27 \pm 5$ deg.C temperature.  <b>(C)</b> Self Discharge (%)		104.85Ah  100.48Ah  4.17%	
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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.

*B Sharma*  
10/04/2018  
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10/4/18  
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