

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. 21/17/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. 21/17/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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Bharna
24/10/2017

R Singh
24/10/17

Rajesh Kumar
24/10/17

Lo Puroh
24/10/2017

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TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 21/17/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/EM150SB Tubular Lead Acid PY10683801 2016 12V 150Ah	Eastman/EM150SB Tubular Lead Acid PY10683801 2016 12V 158.59Ah	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 156.18Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		156.18Ah 144.66Ah 92.62% & 79.20%	Average Charging Voltage = 13.8V Average discharging voltage = 11.8V

Sharma
24/10/2017

R Singh
24/10/2017

Rajesh Kumar
24/10/17

Shukla
25/10/2017

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3	Self-discharge test:	
	(A) Initial Capacity measured as per IS 13369:1992	151.67Ah
	(B) Final Capacity after keeping 28 days at 27 ±5 deg.C temperature.	147.32Ah
	(C) Self Discharge (%)	2.87%

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: *R Shukla*
 Name:
 Date: *29/10/2017*



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