

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

2015-2016

TEST REPORT ON BATTERY

Sample ID No. 17/15/BT

Manufactured by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
 Phase VI, Sector-37, Gurgaon-122001, Haryana

Submitted by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
 Phase VI, Sector-37, Gurgaon-122001, Haryana

This is a report on measurements of **Capacity rating, Charge efficiency & Self Discharge** carried out on the battery (sample no. 17/15/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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Manish
 29/10/15

Peter Kumar
 29/10/15



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TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 17/15/BT

Manufactured by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
Phase VI, Sector-37, Gurgaon-122001, Haryana

Submitted by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
Phase VI, Sector-37, Gurgaon-122001, 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 C10 discharge rate (vi) Dimension (mm) (vii) Weight before testing (kg)	Su-Kam/STB 100 Lead Acid SKM100-300715-002 2015 12V 100Ah 518x274x286 50.5Kg	Su-Kam/STB 100 Lead Acid SKM100-300715-002 2015 12V 110.3Ah 520x280x290 50.68Kg	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 108.9Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		108.9Ah 102.7Ah 94.31% & 81.55%	Average Charging Voltage = 14.04V Average discharging voltage = 12.14V

Manish
29/10/15

Rizal Kumar
29/10/15



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3	Self-discharge test: (A) Initial Capacity on discharging at (C 10) constant current continuously up to cut off voltage. (B) Final Capacity after keeping 28 days in 27 ±5 deg.C temperature. (C) Self Discharge (%)		105.2Ah 101.3Ah 3.71%
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Prepared by: Manish
 Date : 29/10/15

Ritesh Kumar
 29/10/15

Approved by:
 Date:

Issued by: Shuchi
 Date: 29/10/2015



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