

**HI PHYSIX LABORATORY INDIA PVT. LTD.**

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TEST REPORT

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TEST REPORT AS PER: Capacity Test as per IS 1651:2013 & Customer's Specification SRF No.: 25120756

| | | | |
|---|--|---------------------------------------|-------------------------------------|
| Name & Contact Information of Customer: Laurus Batteries Power System Pvt. Ltd. Plot No. 11, Emerald Industrial Estate, Village:Dheku, Tal:Khalapur, Dist: Raigad 410203Maharashtra. | ULR- TC135182500001198F Discipline: Electrical Testing Group: Cells and Batteries Test Report No: HPLI/Test/2512075601 Date of Issue: 17/12/2025 Test Performed: At Lab | | |
| | Customer Ref. & Date: 11/12/2025 | | |
| Contact Person: Mr. K. B. Chinchane Contact No: +919820711015 | Date of Sample Receipt: 11/12/2025 | Start of Test Date: 16/12/2025 | End of Test Date: 16/12/2025 |

**PART A - PARTICULARS OF THE SAMPLE SUBMITTED**

| | |
|--|---|
| Sample description | Name:-LMLA(Low Maintenance Lead Acid Cell) |
| Grade/ variety/ type/ class/ size etc. | Size: (L x W x H): (400 x 192 x 490)mm |
| Declared values, if any | Rated Current: 60Amp, Rated Voltage: 2Volt, Rated Capacity: 600Ah |
| Code no., BIS seal and IO's sign. if any | Nil. |
| Batch no., date of manufacture and Brand name | Brand and Trademark Name: "Laurus " Model No.: LBPS12256000025 |
| Quantity | 1 Nos. |
| Condition of the sample | Ok |
| Reference specification (s) | Capacity Test as per IS 1651:2013 & Customer's Specification (Tests have been carried out as per customer's request) |
| Environmental conditions | Temperature 20±5°C & Relative humidity<70% |
| Statement of Conformity | Product passing the requirements of reference standard IS 1651:2013 |
| Decision Rule | Measured Values Including Associated Measurement Uncertainty. |

PART B - SUPPLEMENTARY INFORMATION

- Deviations from the test methods as per relevant specification/ work instructions, if any: Nil
- Details of the drawings, graphs, tables, sketches or photographs as referred in the test report, if any: Attached
- Testing procedure according to work instruction. HPLI03/Test-Solar/WI-01
- The Management System is maintained in accordance with ISO/IEC 17025:2017 and testing Standards/Instruments are traceable to National/ International Standards.

Notes: i) This report is not to be reproduced wholly or in part without our special permission in writing.

ii) This report refers only to the particular sample detailed above.

iii) The results reported in this certificate are valid at the time of and under the stipulated conditions of Measurement.

iv) Remnants of the sample will be disposed off after 30 days of issue of test report, if no any further information is received.

Tested by
(Testing Engineer)Checked by
(Manager-Testing)Approved by
(Manager-Testing)Issued by
(Assistant Manager)

Format No. HPLI 04 F31-00

Note: This document is digitally signed and does not required the signature on each page.

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ULR- TC135182500001198F

Test Report No.: HPLI/Test/2512075601

IS 1651:2013

PART C- TEST RESULT

| Sl. No. | TESTS WITH CLAUSE REFERENCE | SPECIFIED REQUIREMENTS | | RESULTS | Verdict |
|---------|----------------------------------|------------------------|--|--|---------|
| 1. | Test for Capacity (Cl. No. 12.5) | 12.5 | After standing on open circuit for not less than 12 hours and not more than 24 hours | | Pass |
| | | | discharged through a suitable variable resistance at a constant current of $I = 0.1 C_{10}$ | Cell discharge with 60A current | |
| | | | The discharge shall, be stopped when the closed-circuit voltage across the cell falls to 1.85 volts. | Complies | |
| | | 12.5.2 | The time in hours elapsing between the beginning and the end of discharge shall be taken as the period of discharge. (Hr: Min: Sec) | Discharge period: 11:59:21 | |
| | | 12.5.3 | The average temperature ($t^{\circ}C$) of the electrolyte during discharge shall be the average of the temperatures of the electrolyte noted at hourly intervals. | Complies | |
| | | 12.5.4 | Unless otherwise agreed, capacity test as described above, and conducted immediately after the first charge of the cell is normally to be treated as the test discharge for the purpose of acceptance of the cell. On the first discharge the cell shall give not less than 85 percent of the rated capacity and the rated capacity shall be reached within specified number of charge/ discharge cycles given by the supplier subject to maximum of 10 discharges subsequent to the initial charge. Once the rated capacity has been met on any discharge/further discharge cycles for capacity shall not be continued. | Complies | |
| | | 12.5.7 | Requirement | See below | |
| | | 12.5.7.1 | The actual capacity shall not be less than the rated capacity and not more than 120 percent of the rated capacity when the test is carried out at the 10 h rate. | Capacity observed during first cycle: 719.254Ah (119.875%) | |



PART C- TEST RESULT

Photograph of sample



-----END OF THE TEST REPORT-----