

**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- TC135182500001186F Discipline: Electrical Testing Group: Cells and Batteries Test Report No: HPLI/Test/2512075602 Date of Issue: 16/12/2025 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: 15/12/2025	End of Test Date: 15/12/2025

**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): (220 x 167 x 432)mm
Declared values, if any	Rated Current: 40Amp, Rated Voltage: 2Volt, Rated Capacity: 400Ah
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.: LBPS12254000052
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
(Deputy Technical Manager)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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Test Report No.: HPLI/Test/2512075602

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 40A 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: 11:18:14	
		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: 452.120Ah (113.03%)	



PART C- TEST RESULT

Photograph of sample



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