

## Less Consumption of Electricity in Eastman Battery

### Objective

In this white paper we will be studying and analyzing the electricity consumption in Eastman battery. To start with, Eastman technical team decided to conduct a test to demonstrate how Eastman batteries are preferable than other battery brands in terms of electricity consumption. This test report also claims that Eastman battery consume less electricity when compared with other battery Brands. It is also important to populate this study to increase customer's awareness and why customer should buy Eastman Batteries.

### Test Procedure

The Research and Development Team at Eastman has developed and introduced a test for low electricity consumption as there is no standard procedure to determine the same in the battery industry which informs us & guide us to perform this kind of test. After intense research, lab testing & battery trials, this test was finally introduced in industry. Now, people have started using this test / standards established by Eastman R&D's Team. Eastman introduced this test in the battery industry and is also publishing the same on open platform.

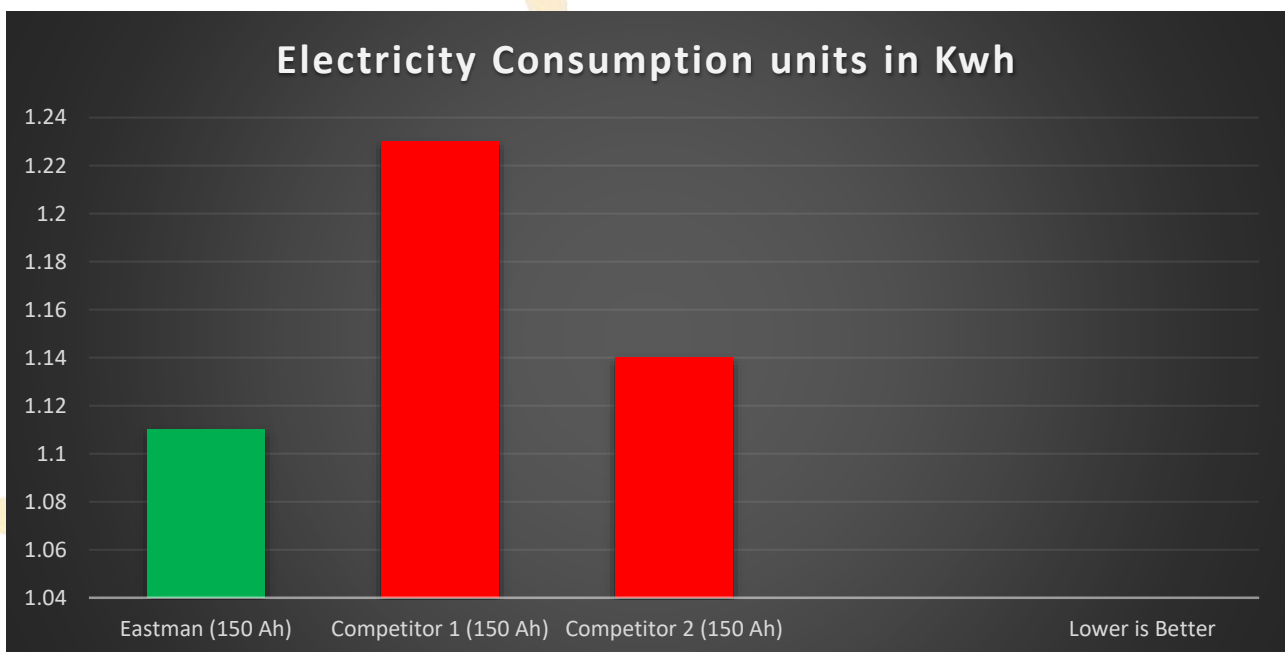
Here is a brief how the test is conducted in a step by step process and get the best results. Start date of the test was 06-02-2020 & End date of test was 14-02-2020. During this time period, regular monitoring of batteries was done by highly skilled technicians.

- 1) Firstly, charge the battery via normal application (Ordinary inverter used in homes)
- 2) Note down all required parameters of battery that helps to analyze the correct result of test, like specific gravity, discharge, current, final gravity, voltage, current etc.,
- 3) Put the battery on 400 watt load till cut off of battery voltage
- 4) Charge the battery again for a defined period
- 5) Repeat the cycle
- 6) Ensure to conduct all activities at ambient temperature

## TEST BRIEFING:

In this test we took some batteries of competitor brands randomly of 150Ah from the market. We also took some batteries of Eastman brand of the same capacity (150Ah). All the batteries were tested simultaneously. After a long testing period of 12 to 15 days, we arrived at the test result. We discovered that Eastman battery is consuming lesser electricity in comparison to competitor brands battery. Test report data is enclosed here for a better understanding & to examine the facts.

Consumption of Electricity During 400W discharge.														
Battery	Cycle No.	Initial Specific Gravity	Average Discharge Amps	Run Time (h)	Ah Out	Final specific gravity	Peak Voltage (V)	Float Current (A)	Float Voltage (V)	Final Gravity at the end of full charge	Ah in	Ah in/Ah out	Maximum System Voltage (V)	Units Consumed (kWh)
Eastman 150Ah	2	1.243	32.8	2.40	78.7	1.225	14.28	0.1	13.54	1.246	77.8	98.8%	14.28	1.11
Competitor 1 (150Ah)	1	1.271	32.9	2.63	86.6	1.218	14.28	0.1	13.60	1.246	86.2	99.5%	14.28	1.23
Competitor 2 (150Ah)	3	1.244	32.1	2.28	73.3	1.213	12.29	0.1	13.41	1.244	79.5	108.5%	14.28	1.14



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# White Paper

## Brief About Eastman Battery Technology

As portrayed in the above test result, Eastman battery consumes lesser electricity in the test. We also need to understand the reason behind this kind of performance of Eastman battery. Eastman batteries use hybrid alloys for battery manufacturing which has been tested at well-equipped chemical labs wherein, highly skilled pharmacists perform all alloy tests at PPM level by **INDUCTIVE COUPLED PLASMA MASS SPECTROMETER (ICP-MS)** with latest technology machines used in the manufacturing system. Highly skilled manpower at each and every stage of manufacturing system ensures high quality battery. There are various other factors which make Eastman battery better than other batteries which we can be discussed with our regional sales person when you interact with them.

## Conclusion

This white paper was a brief about the difference in electricity consumption of Eastman battery & other big battery brands. Now it will be easier for you to choose a better battery for home and workplace. Batteries which are good in performance as well as economical, that will also help in savings by consuming less electricity and in turn lesser electricity bills.



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