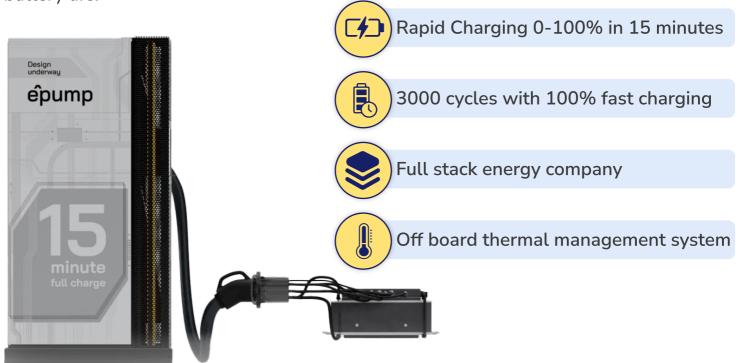# Exponent fetches 4MB data every hour with Bytebeam!

Exponent builds fast charging batteries that can go 0 to 100% in 15 minutes. The rapid charging time requires its teams to proactively monitor battery health, and analyze their performance in different conditions. Exponent wanted a solution that can solve for latency while capturing data at very high frequencies. Using Bytebeam, they now collect over 400 data points every second without any miss.

Read the case study to know more.

About the product

Exponent Energy was started by Ather's ex-CPO Arun Vinayak & ex-HUL executive Sanjay Byalal. Exponent energy supplies fast charging batteries to multiple EV OEMs, achieving 15-minute rapid charging cycles for electric vehicles in India without affecting battery life.

- Rapid Charging 0-100% in 15 minutes
- 3000 cycles with 100% fast charging
- Full stack energy company
- Off board thermal management system

epump   eplug   epack

Challenges

Exponent wanted to proactively monitor the health of the batteries and detect granular issues such as overcurrent, overheating, and degrading cell shell life to increase the battery performance

Secondly, they wanted to set up charging infrastructure and they wanted a solution that did its job at both places.

They also wanted to focus on core product development and create significant product differentiators instead of worrying about data engineering capabilities.

Managing a lean product development lifecycle, they wanted a solution that works at both testing as well as production without much hassles.

Solution implemented by Bytebeam

- Bytebeam enabled a data platform that would help Exponent monitor the health batteries in the field. The platform helped the exponent collect over 400 different data points every second.

- The Bytebeam data platform reported all battery-related errors and issues to help increase efficiency.

- Bytebeam took over data engineering capabilities and helped integrate the data with data science & AI/ML tools.

- Bytebeam's self-serve platform worked effortlessly at all stages of the product development and scaled as per requirements.

Arun Vinayak
CEO, Exponent Energy

"Thanks to Bytebeam, we focus on core product development now and not worry about building a data engineering team."

Results

Bytebeam was integrated and devices were onboarded in weeks instead of months.

Approximately 4M data points per device were sent to the platform every hour during product development, enabling data-backed decision-making toward improving efficiency.

Bytebeam's vertical integration cloud platform acted as a layer of intelligence on top of the network of chargers and batteries developed by Exponent and sped up R&D

Bytebeam revolutionised Exponent's product development strategy. With rich data in real time, the product team detected issues early and resolved them in no time. As a result, Exponent launched its product faster in the market.

BYTEBEAM

BYTEBEAM

Effortlessly manage
your android devices

Elevate your devices with Bytebeam: the ultimate backend solution for connected devices. Quick to integrate, customisable and adaptable, Bytebeam empowers your devices with enhanced security, OTA upgrades, asset tracking, remote diagnostics, and more. Speed up your launches, improve customer experiences and stay ahead of the market with Bytebeam.

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