

Transforming the battery experience. Simply with software.

Trusted worldwide to power the products that power your life.

Year Founded
2010

Markets Served
Consumer Electronics, Electrified vehicles, Energy storage systems

Corporate Overview

Qnovo supplies the most advanced battery management software to the world's leading smartphone, automotive and energy storage manufacturers. By augmenting battery chemistry with intelligent algorithms and machine learning, Qnovo delivers a vastly enhanced user experience with uncompromised safety.

Our comprehensive solutions combines intelligent adaptive charging algorithms with advanced battery health and safety features. Qnovo allows you to experience cutting-edge features including super fast charging, more available battery capacity, longer lifespan and an absolute peace of mind in battery health and safety. Qnovo products set a new standard for batteries so you can expect and experience the best from your battery.



Electric Vehicles

Seeing you through the new transformation of mobility.

Giving drivers one less thing to worry about with our superfast, unlimited charging. Qnovo works with every one of the top ten automotive OEMs across the world.



Battery Energy Storage Systems

Creating the energy storage systems of tomorrow, today.

The possibilities of energy storage systems are limitless, but a battery's life span is not. Some of the world's top energy and utility companies partner with Qnovo to take the guesswork out of energy storage – without any additional hardware.



Consumer Electronics

Improving the everyday technology powering our lives.

Today's consumer electronics users expect all-day battery life and multiple-year life spans from their devices. Qnovo's no-compromise intelligence supports extended charging capabilities while prioritizing safety. Qnovo's technology is in 150M smartphones worldwide with zero failures in the field.

34

Issued Patents

2M+

Battery Test Cycles

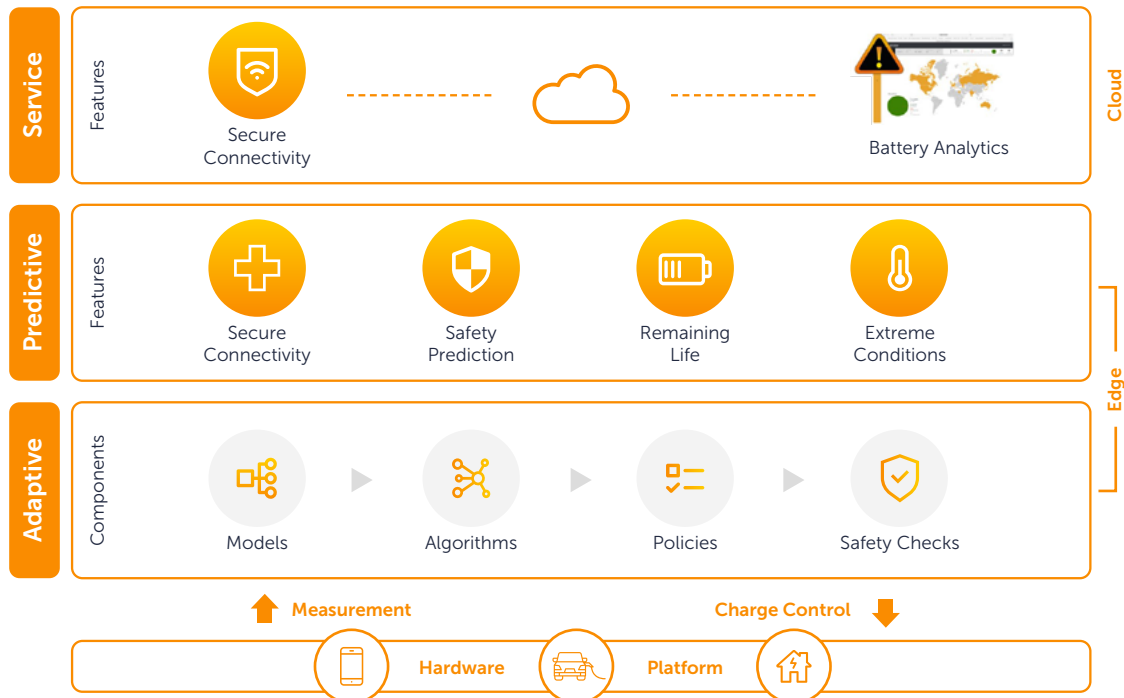
100M

Devices Shipped

Zero

Failures in the Field

Battery Management Software Stack



Adaptive charging algorithms combine requisite diagnostics with learning chemical models to maximize battery life and longevity. Qnovo's technology analyzes the battery's internal chemical processes. By studying the state of battery health and anticipating future aging, it dynamically adjusts the rate and degree of charging to meet some of the most challenging requirements such as those demanded by 5G smartphones.

The second layer performs supervisory and predictive functions based on its predictive battery health and safety algorithms. It computes metrics describing true chemical battery state-of-health (SoH) and estimating remaining cycle life. A companion safety indicator provides an early warning of present battery faults that may lead to an explosion or fire.

Both first and second layers operate and store their encrypted data on the host device to maintain the privacy of end users. They are compatible with numerous hardware platforms including ARM-based architectures, as well as multiple host operating systems.

The third layer is a battery analytics service in the cloud. It securely collects health and safety information from the predictive layer for each individual battery, and aggregates the anonymized data across the large battery population in the field. This cloud service provides OEMs, network operators and fleet managers with an instantaneous view of batteries in the field enabling them to identify and remove hazardous batteries from circulation before they pose a catastrophic risk.

Award-Winning Technology & Solutions



Gartner
COOL VENDOR Consumer devices
April 2015



Business Intelligence
Finalist
October 2015



Electronic Products
Product of the Year
January 2016



Global Mobile Awards
Finalist MWC2020
February 2020