VARTA Microbattery

VARTA Microbattery values

True brand value included
Our name underpins everything we do. Recognised and trusted throughout the world of electronics, we build confidence into every battery we make.

An uncomromising approach
VARTA Microbattery never compromises on safety. All lithium power packs are given two weeks isolated storage following assembly to ensure that no cell damage has occurred during manufacturing and assembly.

Unique Lithium experience
As your design concepts are defined, we look deeper into the whole application concept, and your organisation, to find every opportunity to reduce your total cost of ownership.

Openness
Beyond the battery…
As your design concepts are defined, we look deeper into the whole application concept, and your organisation, to find every opportunity to reduce your total cost of ownership.

Market understanding
Long-term partner relationships with key customers in the automotive, medical and industrial markets has positioned us perfectly to understand the challenges you face and to provide the answers.

The benefits of partnerships
With the success of your first CellPac PLUS project with VARTA Microbattery, you find yourself with a lithium battery system partner to support you in moving forward. We will draw from our resources when designing your next application.

Active project management
Our project manager group is experienced on all aspects of battery design, construction, certification and implementation to ensure that the value from your project far exceeds the cost of development and to ensure that the final custom battery pack meets the overall requirements for your application.

Supply chain management
Data integration with our own assembly plants in Asia gives VARTA Microbattery the competencies and expertise on a global market level which is required by today’s competitive worldwide market.

Certification management
Expenses on lithium battery system development are high and the costs of achieving consumer requirements at the front end for proper guidance at the tight time.

Contacts

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We can provide the answers.

Lithium power pack solutions

There are many problems to solve when designing a battery…

…on the plus side, we can provide the answers.

CellPac PLUS, the battery design service you can trust.

Power Pack Solutions

TouchStar – Portable Terminals

TouchStar provides technology that keeps fuel stations stocked with petrol and diesel. Its Raven and Kestrel TouchStar portable terminals and software enable petroleum companies to track and control fuel tank levels and log deliveries to fuel stations in real time.

The regulations governing the use of electrical equipment near highly combustible materials are extremely strict, and require specialist expertise in the design of safety-critical components such as battery power packs. So TouchStar commissioned VARTA Microbattery’s CellPac PLUS service to design the control circuitry for the Raven and Kestrel battery packs, and pilot them through the industry’s stringent ATEX certification process.

By using CellPac PLUS, TouchStar got a certified, high-performance battery design while keeping its internal engineering teams focused on the design of the company’s core delivery-tracking software applications.

Invacare – Oxygen Conserver

Invacare Corporation, the world’s largest manufacturer of home medical equipment, supplies products to a very highly regulated market, in which patient-safety certification is rigorous and strictly monitored.

By working together with VARTA Microbattery on certification and compliance of our battery for a new line of home oxygen concentrators using CellPac PLUS, Invacare was able to focus its internal engineering teams on the design of the company’s core delivery-tracking software applications.

Invacare – Oxygen Conserver

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Lithium power pack solutions

There are many problems to solve when designing a battery…

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CellPac PLUS, the battery design service you can trust.
Hand-held applications hold many challenges for battery safety, reliability, endurance or fit. Design requires considerable resource and expertise. At every stage of development, however, from cell chemistry to mechanical and electronic integration, CellPac PLUS team are already steps ahead in providing you with the perfect solution.

**Next steps**
If battery choice is important to your design and your company produces between 5,000 and 500,000 handheld, portable and wireless devices every year for the industrial, commercial, medical or automotive industries, speaking to VARTA Microbattery’s CellPac PLUS technicians and project managers should be your next step. Book your initial consultation now at sales@cellpacplus.com.

The CellPac PLUS design and development process combines VARTA Microbattery’s renowned cell knowledge with experience of designing batteries for a range of industrial, medical, specialist communications and point-of-sale applications. The employment of this experience ensures exceptional performance over the lifecycle of your product.

**Mechanical design**
Protection and connection are key considerations in mechanical design. Capacity calculations need to be reconciled with the mechanical envelopes and the load current requirements, the load current profile, charging regime and the operating environment in which the battery will be used.

**Chemical architecture**
Choosing the right cell is just the start of any battery design. The peak current demand from the protection circuitry must correctly guide the cell manufacturer to select the most suitable battery chemistry. The implications on its design. Embedded battery design is cheaper but typically means that end-of-life (EOL) for the battery determ ines EOL for the host system.

**Electrical and electronic design**
Understanding how much capacity is required to run the applications the length of the charging cycle, the current pulse requirement and the overall load profile are all important factors in the design of a battery. Recalculating the peak current demand with the protection circuit module and correctly guiding the battery cell chemistry and voltage for discharge of the battery are also vital to avoid shortening battery life.

**Certification and testing**
Transport certification is a must for rechargeable Lithium batteries. Without certification you’ll have to ship them as dangerous goods, greatly increasing your shipping costs, time, and burdening your resources. Understanding which approvals are required at the start of the design cycle and obtaining those approvals through certified testing procedures are essential. The ensure regulations are adhered to and that the end user can enjoy the product safely.

**CellPac PLUS** is VARTA Microbattery’s new custom battery design service for portable and handheld electronic devices for the industrial, medical and communications markets. CellPac PLUS is not a one-size-fits-all option. It enables you to select a dedicated group of technicians and project managers, each experienced with every aspect of battery design, to provide project and implementation to ease the time-consuming development process. It is VARTA Microbattery’s responsibility to deliver the best battery for your product on-time and on-budget, enabling you to achieve faster time to market and better results.

**Saving you time**
CellPac PLUS delivers a total project management, end-to-end battery design solution from the initial specification to product manufacture. Working with the CellPac PLUS team will give you access to a dedicated group of technicians and project managers, each experienced with every aspect of battery design, to provide project and implementation to ease the time-consuming development process. It is VARTA Microbattery’s responsibility to deliver the best battery for your product on-time and on-budget, enabling you to achieve faster time to market and better results.

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