

**Infinite variety
needs limitless
creativity.**

CellPac CEM –
Your CEM or ODM for
lithium-ion batteries.



YOUR BATTERY, REALIZED.

► Your requirement: the perfect battery manufacturing solution

Transportation of batteries around the world is complex and expensive when complying with legislation. Batteries are generally the component in the system which dictate which transportation methods can be used and therefore how fast goods can be transported. This has a strong impact on the total supply chain.

Much better when you can select a partner who is able to manufacture batteries either close to your manufacturing site or your customers. By choosing VARTA CellPac CEM, you benefit from increased flexibility and reduced cost all at once thanks to multiple manufacturing sites.

► Your solution: the battery manufacturing service by VARTA Storage

CellPac CEM produces to the highest standards. With CellPac CEM, VARTA Storage supports you from the start of production to the end of life of your product.

With our experience and expertise we manufacture your custom solution according to your design.

► Your partner: VARTA Storage GmbH

VARTA Storage GmbH is a company leading the field of intermediate energy storage and a subsidiary of VARTA AG, which also includes the company VARTA Microbattery GmbH with more than 130 years of battery technology experience. The company, located in Nördlingen, Bavaria, specializes in lithium-ion-energy storage for the use in private households and industrial solutions.

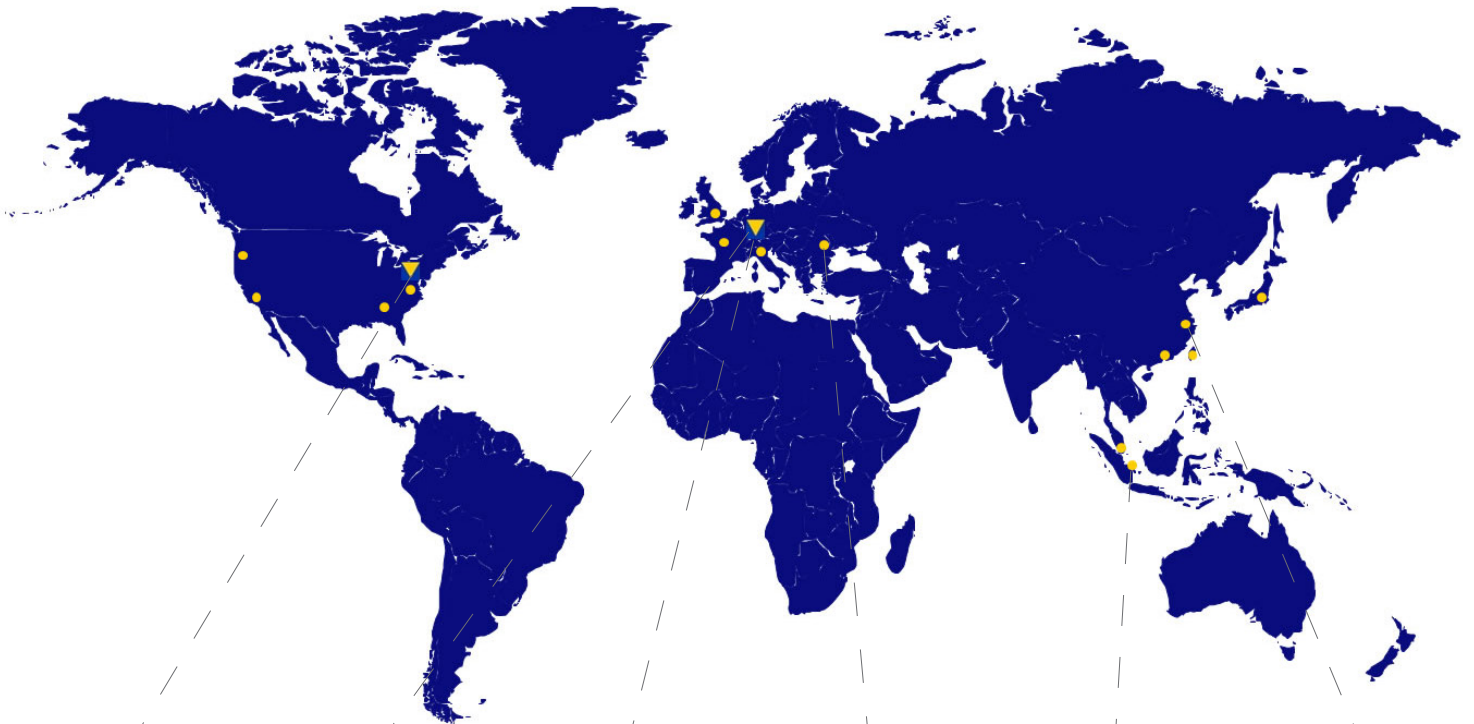


CellPac CEM

The experts at VARTA Storage GmbH offer solutions for every aspect of the manufacturing of your lithium-ion battery.

WORLDWIDE EXPERTISE IN BATTERY MANUFACTURING.

► VARTA Storage recognises that for many of our customers the specification and design of their battery solution is part of their product IP and for this reason they prefer to specify and design their batteries in house.



NEW YORK



HQ America, sales and logistics USA

ELLWANGEN



Global HQ, development, design center and production

NÖRDLINGEN



Production of energy storage systems, service centre and sales

BRASOV



European battery assembly and logistics

BATAM



Asian battery assembly and logistics

SHANGHAI



Asian battery assembly

With CellPac CEM, project managers and purchasing executives are able to take advantage of VARTA Storage's global manufacturing footprint. VARTA Storage additionally supports with knowledge and experience in the design and manufacture

of manufacturing and automation systems. Together with VARTA Storage's supply chain management and purchasing power your batteries will be built at a location best suited to your needs.

► GLOBAL FOOTPRINT

EUROPE

CHINA

INDONESIA

► WORLDWIDE SUPPORT

► SUPPLY CHAIN MANAGEMENT

► TEST AND CERTIFICATION

THE POWER OF MANUFACTURING.

► In addition to the high-quality battery solutions, VARTA Storage provides a manufacturing or assembly service that takes your design to mass production and beyond.

1. DESIGN FOR MANUFACTURE

You have designed your battery and you are now looking for the perfect partner to manufacture the battery in high volume. VARTA Storage will review your design and suggest any adjustments that will make it easier and faster to manufacture.

2. SUPPLY CHAIN REVIEW

Together with you VARTA Storage will review your BOM and make sure that the supply chain is robust and that the best incoterms are in place for every component. VARTA Storage will then confirm that based on this supply chain, volume manufacturing can begin. This confirmation will include a project plan supported by an experienced project manager to ensure that all deliveries are made on time and to the right quality level.

3. MANUFACTURING SITE LOCATION

Based on the complexity of your design VARTA Storage will recommend one or more locations of undertaking the mass production of your battery. At this location VARTA Storage will ensure the highest level of automation possible in three phases short term, medium term and long term. You are then free to select the best location(s) to meet your requirements.

4. PRODUCTION

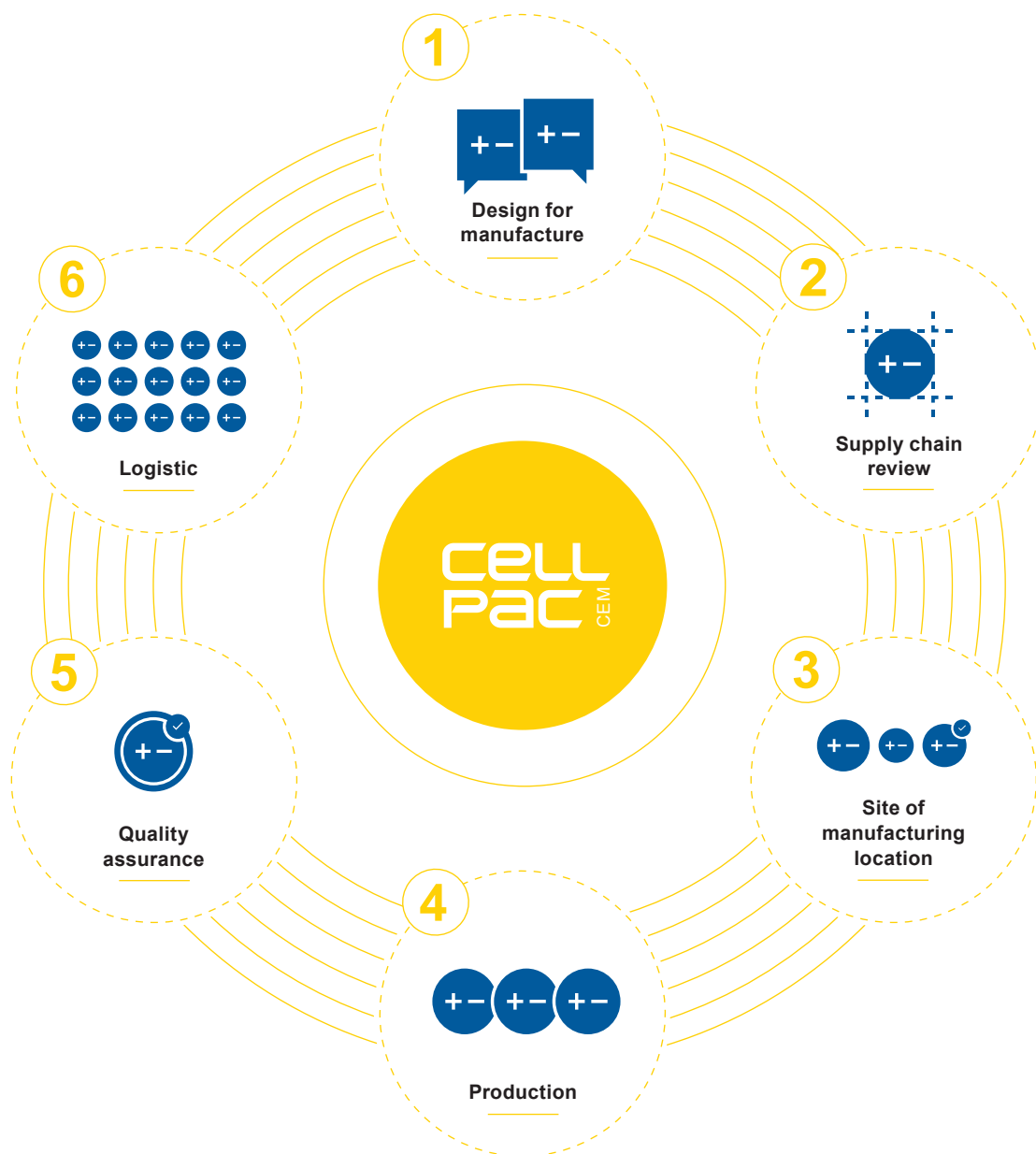
After successful completion of all tests and certification, we can undertake serial production in one of our production facilities worldwide. Each fulfills the highest ISO-standards and ensures a high quality production.

5. QUALITY ASSURANCE

Our design to manufacture ensures that quality is designed in. Throughout the entire product life cycle, our experts at VARTA Storage manage and monitor continuously to ensure only products of the highest quality will be delivered. As required field tests can be implemented.

6. LOGISTICS

VARTA Storage meets the challenges of transporting lithium-ion batteries with great experience, efficiency and safety. Our world-wide logistics network guarantees a fast and flexible delivery interacting with your own transport and storage requirements.



EVERYTHING REVOLVES AROUND YOUR SUCCESS.

Our specialists ensure that each battery meets the high performance and safety standards of VARTA Storage as well as specific customer requirements.



INDIVIDUAL SUCCESS.

► For high quality, precise manufacturing and assembly of your battery.

► **1. DESIGN FOR MANUFACTURE**

Acceptance of the design by all parties means the manufacturing of the battery begins. Project management executed in detail guarantees timely realisation. Once approved, VARTA Storage produces the first prototypes of your battery, which are used for test, verification and certification. Following acceptance of these batteries we can move to mass production.

► **2. SUPPLY CHAIN MANAGEMENT**

By partnering with VARTA Storage you will get access to our world-class, world-wide supply chain management to enable fast, safe and reliable delivery of your battery.

► **3. HIGHEST LEVEL OF AUTOMATION**

VARTA Storage will ensure the highest level of automation possible in three phases short term, medium term and long term to suit the complexity and mass production volume of your battery.

► **4. BEST GEOGRAPHIC MANUFACTURING LOCATION**

Through VARTA Storage's global footprint, you have access to a global network of wholly owned VARTA Storage production facilities in Brasov, Romania, Shanghai, China and Batam, Indonesia.

► **5. END TO END PROJECT MANAGEMENT**

Our key customer service team will support you through the whole process of the assembly, from planning to manufacturing to end-of-life but behind them are a team of highly professional Project Managers, who have many years of experience, in the design and manufacture of lithium ion batteries for all kinds of applications.

► **6. QUALITY**

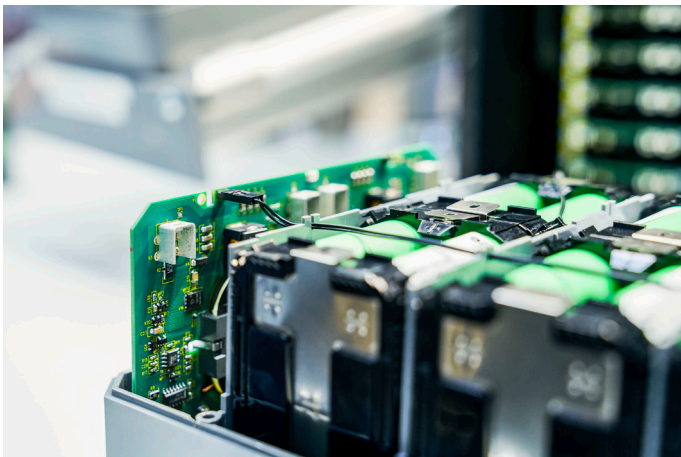
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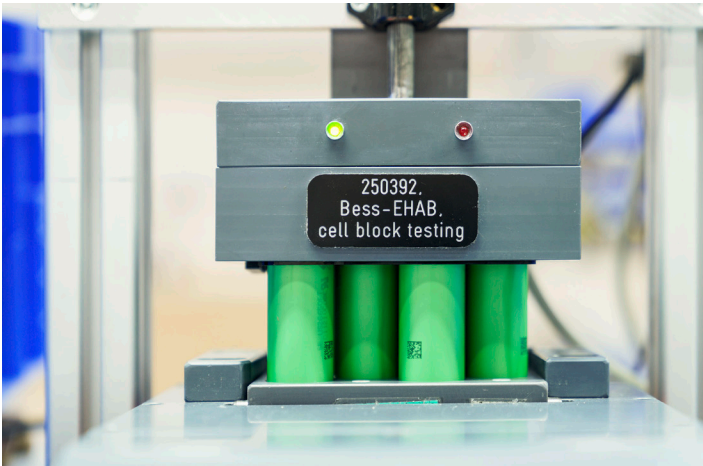
► **7. LOGISTICS**

VARTA Storage meets the challenges of transporting lithium-ion batteries with great experience, efficiency and safety. Our world-wide logistics network guarantees fast and flexible delivery which dovetails with your own systems and requirements.

► **8. AFTER SALES SERVICE**

After your battery goes to mass production VARTA Storage can deliver your battery anywhere in the world supported by our worldwide network of sales offices and customer service teams. VARTA Storage manages a variety of supply chain requirements such as support for import and export, provision of consigned inventory and more. Whatever you need, VARTA Storage can deliver.





STRESS- TEST RESISTANT

With CellPac CEM, VARTA Storage offers a unique expertise in battery assembly for a wide range of markets as well as applications in complex environments. Often our tests exceed ordinary requirements and involve such performance needs as extreme temperatures, waterproofing or special certifications. We understand every requirement.

Applications we power:

- ▶ PORTABLE INDUSTRIAL
- ▶ COMMUNICATION
- ▶ MEDICAL
- ▶ HUMANOID ROBOTICS
- ▶ HOME AND GARDEN

▶ **Address**
VARTA Storage GmbH
Nürnberger Straße 65
86720 Nördlingen
Germany

▶ **Hotline**
+49 9081 240 86-60

▶ **Email**
info@varta-storage.com

▶ **URL**
www.varta-storage.com

▶ **Address**
VARTA Microbattery Inc.
555 Theodore Fremd Avenue
Rye, NY 10580
USA

▶ **Hotline**
+1 800 468 27 82

▶ **Email**
info@varta-microbattery-usa.com

▶ **URL**
www.varta-storage.com