

## SolarTech Power Solutions

# Botswana quality assurance battery cabinet production



## Overview

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Why is quality management important in battery manufacturing?

What we are seeing across the battery manufacturing landscape is an extraordinary drive to meet unprecedented demand, and this environment makes digital solutions essential to achieving quality, cost, volume and delivery targets. Quality management is at the heart of these efforts.

How to deliver high-quality batteries?

Delivering high-quality batteries requires you to manage different processes across the whole product lifecycle, from new product development to mass production. It is essential to design with a quality mindset to accelerate battery production.

How can a holistic quality program improve battery production?

Auto-translate it into: As the energy transition and electrification of mobility drive the explosive demand for batteries, Christophe Mazeaud, director of Battery Industry Solution, Siemens Digital Industries Software, discusses the key role that a holistic quality program plays in scaling and stabilizing battery production.

What is Quality Management in lithium ion battery production?

Quality management for complex process chains Due to the complexity of the production chain for lithium- ion battery production, classical tools of quality management in production, such as statistical process control (SPC), process capability indices and design of experiments (DoE) soon reach their limits of applicability .

Why is Siemens digital industries software collaborating with battery manufacturers?

Siemens Digital Industries Software is collaborating with battery manufacturers as they develop innovative manufacturing solutions to address

these challenges. Through these collaborations, we have realized the importance of digital manufacturing solutions for accomplishing high-volume, high-quality battery production.

How can a quality engineer accelerate battery production?

It is essential to design with a quality mindset to accelerate battery production. Quality engineers can leverage engineering data, such as 2D or 3D models, to acquire relevant information or perform tolerance evaluations, and the project quality can be monitored and approved in respective milestones.

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