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Quality assurance battery cabinet production

Overview

Recent scandals in pollutant emissions by combustion engines have once more raised awareness of the relevance of shifting individual mobility to electrically driven vehicles powered by renewable energies.

What is quality-oriented production planning in Assembly of battery modules?

A tool for quality-oriented production planning in assembly of battery modules was developed by , defining critical product and process characteristics and deriving appropriate quality assurance systems using a measurement equipment catalogue.

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 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.

Why is battery quality so important?

Poor battery quality can lead to major safety and reliability issues in the field in applications including consumer electronics [1, 2], electric vehicles [3, 4], aviation , and more. However, detecting latent cell defects —which are responsible for these battery quality issues—during production is notoriously challenging.

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This SLR contributes to improving quality assurance in battery production by synthesizing current best practices and identifying areas for future research.

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Abstract In this paper, we introduce a holistic approach to consider quality assurance (QA) for battery cell production (BCP). The framework, the explanation of the ...

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Detailed descriptions of three interrelated components -- quality planning, quality improvement, and quality control -- that inform a more holistic whole system quality approach; ...

The paper is structured as follows: Fundamental properties and production of large-format lithium-ion cells will be briefly explained in section 2, followed by a review on ...

A product and process model for production system design and quality assurance for EV battery cells has been developed [14] and methods for quality parameter identification ...

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