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**Communication interface requirements for power lithium
battery production equipment**

动力锂电池生产设备通信接口要求

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Foreword

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Introduction

With the continuous development of new energy technology, power lithium batteries have been widely used in the field of electric vehicles.

Intelligent and automated control of production equipment to improve production efficiency and product quality, formulate communication interface requirements for power lithium battery production equipment, especially is important.

This document aims to standardize the system architecture, overall requirements of the communication interface, functional requirements of the communication interface, data quality requirements of the communication interface, It meets the requirements of communication interface testing, production equipment data security, etc., and promotes the interconnection and information sharing between different production equipment.

Communication interface requirements for power lithium battery production equipment

1 Scope

This document specifies the production equipment system architecture, communication interface of power lithium battery production equipment (hereinafter referred to as production equipment) General requirements, communication interface functional requirements, communication interface data quality requirements, communication interface testing and production equipment data security.

This document applies to the communication interface applications of power lithium battery production equipment during the research and development, production, manufacturing, acceptance and operation processes.

2 Normative references

GB/T 2887-2011

GB/T 18015.5-2007

GB/T 25000.51-2016

GB/T 36344-2018

GB/T 38331-2019

GB/T 41970-2022

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Power lithium battery

In the power system, lithium ions are used as conductive ions to move between the positive and negative electrodes, and the conversion of chemical energy and electrical energy is realized.

Charging and discharging battery.

3.2