

Lithium Battery Testing Service



Testing Items



As a source of portable and mobile power, battery has become an indispensable necessity for human life and industrial production. In recent years, frequent battery recalls have raised international concerns about the safety of batteries product, meanwhile, the European Union has also been adjusting their market entry threshold, and the chinese battery manufacturers are confronted with enormous challenges. STC focuses on customers' requirements, providing professional safety, performance and chemical testing services for battery manufacturers according to different standards such as UN, IEC, UL, JIS, and GB, helping battery manufacturers drive products to global markets.

Country/Region Testing Standards

China	GB 31241-2014	Lithium ion cells and batteries used in portable electronic equipments-Safety requirements
	GB/T 18287-2013	General specification of lithium-ion cells and batteries for mobile phone
	GB/T 35590-2017	Information technology-General specification for portable digital equipment power bank
	GB/T 31484-2015	Cycle life requirements and test methods for traction battery of electric vehicle
	QC/T 743-2006	Lithium-ion batteries for electric vehicles
EU (IEC)	IEC 62133-1: 2017 Edition 1.0	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications-Part 1: Nickel systems
	IEC 62133-2: 2017 Edition 1.0	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications-Part 2: Lithium systems
	IEC 61960 Ed.2: 2011	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed secondary lithium cells
	IEC 62321: 2008	Electrotechnical products-Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)
USA	UL 2054: 2011	UL standard for safety for household and commercial batteries
	UL 1642: 2012	UL standard for safety for lithium batteries-Fifth edition
UN	UN 38.3 Ed.5	United Nations manual of tests and criteria on transport of dangerous goods-Fifth revised edition, Amend.1, Part 38.3
Japan	JIS C 8712: 2015	Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
	JIS C 8714: 2007	Safety tests for portable lithium Ion secondary cells and batteries for use in portable electronic applications



STC is a not-for-profit, independent testing, inspection and certification organization. With a global network of ISO/IEC 17025 accredited testing laboratories and over 50 years of experience in consumer product testing, we can provide one-stop testing service for battery manufacturers according to various national and international standards.

For more information, please contact our Electrical Products Division:

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