



# Energy storage product voltage test standards

What is the energy storage system test manual?

**INTRODUCTION 1.1 Purpose** The following Energy Storage System Test Manual is a series of detailed procedures developed by EPRI in concert with the Testing and Characterization Working Group of the Energy Storage Integration Council (ESIC). This manual addresses the performance and functional testing of energy storage systems (ESSs).

What are the IEC standards for energy storage systems?

The International Electrotechnical Commission (IEC) establishes global safety and performance standards for electrical products, including energy storage systems. Compliance with IEC standards is crucial for accessing the European market and ensuring interoperability and reliability. Key IEC Standards for Energy Storage Systems:

What is the basic testing and characterization of energy storage systems?

The Basic Testing and Characterization of Energy Storage Systems is intended to be storage- technology agnostic, encompassing all electricity -in, electricity -out energy storage technologies.

What are the UL standards for energy storage systems?

Relevant UL Standards for Energy Storage Systems: UL 9540: Standard for Energy Storage Systems and Equipment, covering safety requirements for stationary and mobile applications. UL 1973: Applies to batteries used in stationary applications such as energy storage systems, including performance and durability tests.

What is the performance and functional testing of energy storage systems?

This manual addresses the performance and functional testing of energy storage systems (ESSs). The objective is to provide specific, detailed test procedures that are reproducible so that utilities and other testing entities can easily use them for the performance evaluation of energy storage systems. The key principles that guide this effort:

What are the future standards for battery energy storage?

Future standards may focus more on: The IEC Technical Committee 120 is actively updating existing documents and drafting new ones to address emerging needs. The IEC standard for battery energy storage system is the foundation for the safe and efficient growth of energy storage worldwide.



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