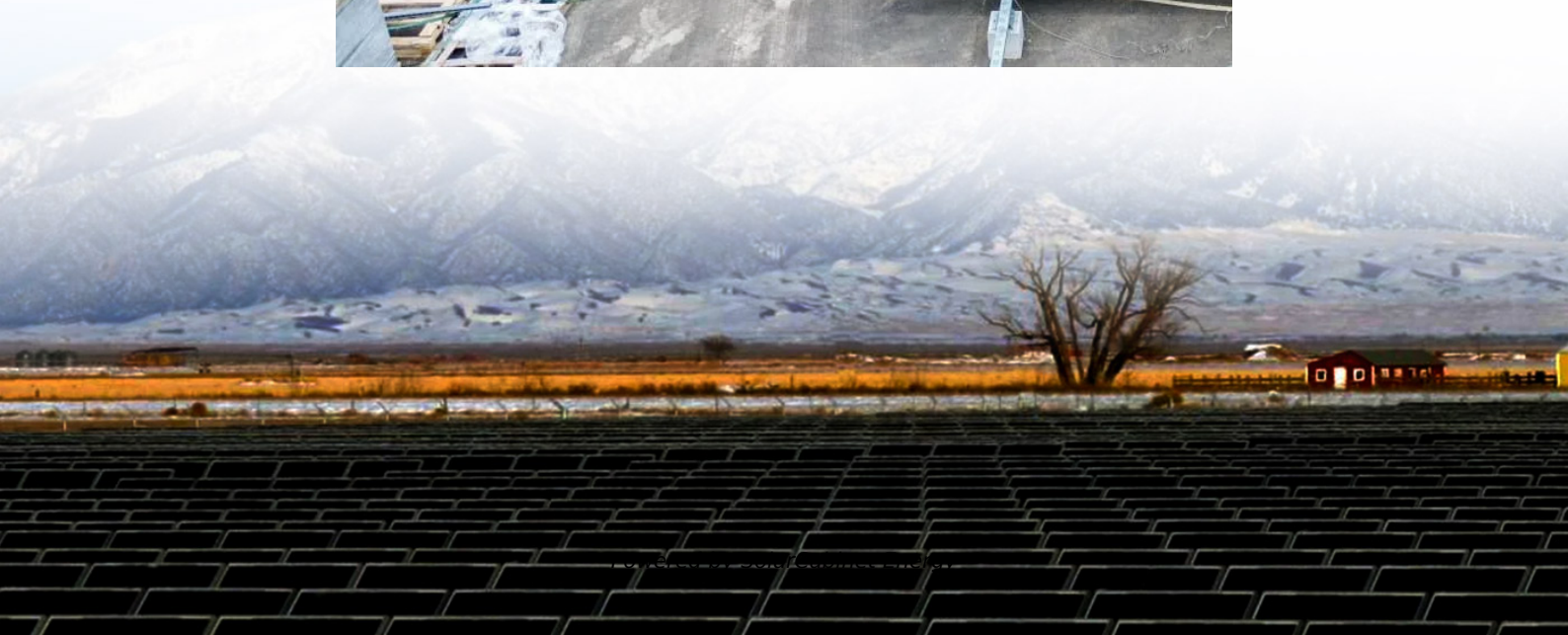


Energy storage power supply equipment standard





Overview

UL 9540, the Standard for Energy Storage Systems and Equipment, covers electrical, electrochemical, mechanical and other types of energy storage technologies for systems intended to supply electrical energy. What is the energy storage standard?

1.4 This Standard covers energy storage systems for stationary indoor and outdoor installations. This Standard also covers mobile energy storage systems as defined by this Standard. This Standard includes requirements for energy storage systems used in residential and non-residential installations.

What are energy storage requirements?

1.1 These requirements cover an energy storage system (ESS) that is intended to receive and store energy in some form so that the ESS can provide electrical energy to loads or to the local/area electric power system (EPS) when needed. Electrochemical, chemical, mechanical, and thermal ESS are covered by this Standard.

What is the energy storage system guide?

Through their efforts, the Energy Storage System Guide for Compliance with Safety Codes and Standards 2016 was developed. This code for residential buildings creates minimum regulations for one- and two-family dwellings of three stories or less.

What is an energy storage system (ESS)?

Covers an energy storage system (ESS) that is intended to receive and store energy in some form so that the ESS can provide electrical energy to loads or to the local/area electric power system (EPS) when needed. Electrochemical, chemical, mechanical, and thermal ESS are covered by this Standard.

What are energy storage systems?

This Standard covers the energy storage systems used for supplying backup



power to loading apparatuses in equipment in the event of the equipment having a power failure, for peak shaving and peak load shifting (for using charged power at a peak period), for virtual power plant (VPP), for demand response, etc.

What type of power supply is included in this standard?

This Standard covers either of the following. Stand-alone system of AC input voltage of 600 V or less or DC input voltage of 750 V or less which receives power from a low-voltage distribution system and supplies power from an output terminal or socket outlet.



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[White Paper Ensuring the Safety of Energy Storage Systems](#)

Introduction Energy storage systems (ESS) are essential elements in global efforts to increase the availability and reliability of alternative energy sources and to reduce our reliance on energy ...

[Outdoor energy storage power supply export requirements ...](#)

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