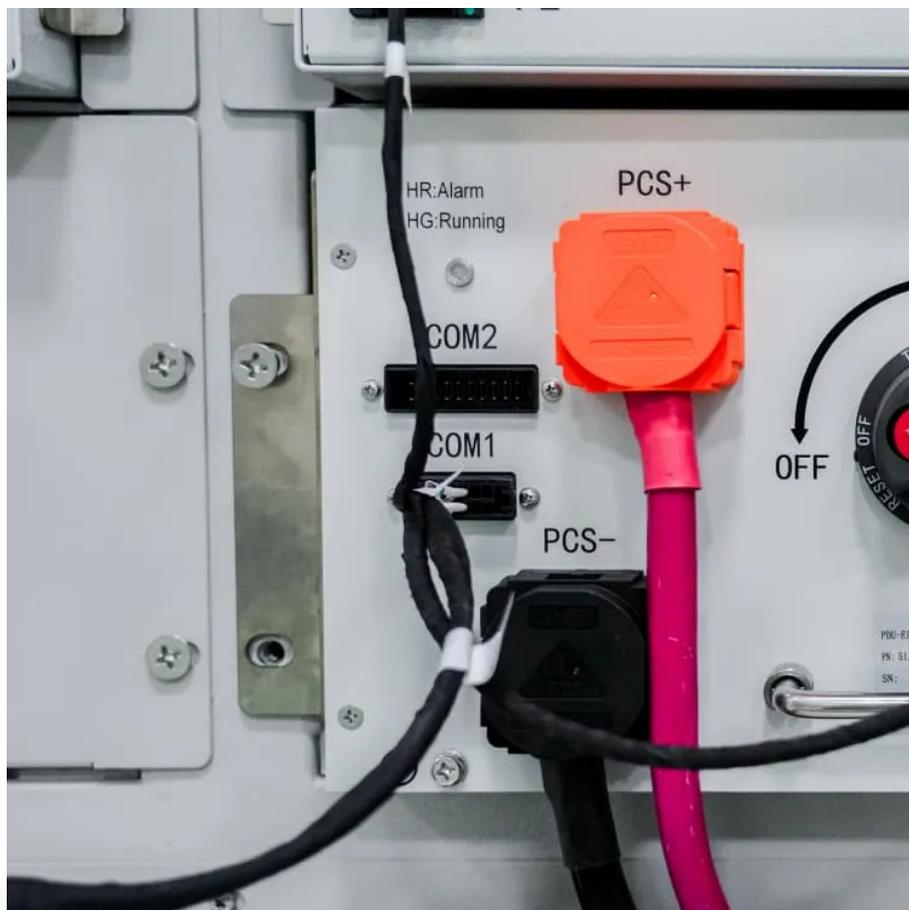


Energy storage power supply equipment standard





Overview

The standard covers the design, construction, testing, and operation of ESSs and imposes stringent requirements for electrical safety, thermal safety, mechanical safety, fire safety, system performance, system reliability, and documentation. UL954 is widely recognized as the benchmark for ESS safety and performance and is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC). 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 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 is a battery standard?

Covers requirements for battery systems as defined by this standard for use as energy storage for stationary applications such as for PV, wind turbine storage or for UPS, etc. applications.

Does industry need standards for energy storage?

As cited in the DOE OE ES Program Plan, "Industry requires specifications of standards for characterizing the performance of energy storage under grid conditions and for modeling behavior. Discussions with industry professionals indicate a significant need for standards . " [1, p. 30].



Energy storage power supply equipment standard

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