

## Solar Energy South Africa

# Rechargeable Energy Storage System RESS



## Overview

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What is a rechargeable energy storage system (RESS) test?

It describes a body of tests which may be used as needed for abuse testing of electric or hybrid electric vehicle Rechargeable Energy Storage Systems (RESS) to determine the response of such electrical energy storage and control systems to conditions or events which are beyond their normal operating range.

What are the requirements of a rechargeable energy storage system?

Part II: Requirements of a Rechargeable Energy Storage System (REESS) with regard to its safety No restriction to high voltage batteries, but excluding batteries for starting the engine, lighting. Amend an annex with test procedures 7 Kellermann/24.05.2012/GRSP Requirements in Part II.

What is a Reess battery pack?

“REESS” means the rechargeable energy storage system that provides electric energy for electric propulsion of the vehicle. Battery Management System (BMS) and Battery Pack are the two main components of the REESS. As UNECE mentions on the document titled Terminology related to REESS a battery pack may be considered as a REESS if BMS is integrated.

What types of energy storage devices are included in Reess?

RESS includes any type of rechargeable electrical energy storage device, such as batteries and capacitors. This document does not apply to RESS that uses mechanical devices to store energy (e.g., electro-mechanical flywheels) or fuel cells.

What is the energy storage component of a Reess?

While the presentation and emphasis varied, the key areas of concern were the same. The energy storage component of a RESS is typically an electrochemical battery pack consisting of multiple battery cells arranged in

modules. The modules usually have an active or passive cooling system to remove excess heat generated during use.

What is the purpose of Ress?

The RESS is to prevent or detect and mitigate all loss of high-voltage power. The RESS is to inform the vehicle systems controller and the vehicle propulsion system (directly or indirectly) in case of loss of high-voltage power or the disconnection of the high-voltage power from the vehicle high-voltage bus.

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### ISO 6469-1:2019(en), Electrically propelled road vehicles ? Safety

Part 1: Rechargeable energy storage system (RESS) Buy. Follow. Table of contents. Foreword. 1 Scope. 2 Normative references. 3 Terms and definitions. 4 General requirements. 4.1 General ...

### ISO 6469-1:2009(en), Electrically propelled road vehicles ? Safety

This part of ISO 6469 specifies requirements for the on-board rechargeable energy storage systems (RESS) of electrically propelled road vehicles, including battery-electric vehicles ...



### Ford Safety Performance of Rechargeable Energy Storage Systems (RESS)

This study of rechargeable energy storage systems (RESS) in electrified vehicles had the objective of defining lithium ion battery performance based safety-metrics, safety performance ...

### [RESS ?? ????????](#)

RESS => Rechargeable Energy Storage System  
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### RESS-4-3 Proposal how to structure the RESS safety requirements

If the RESS is installed in a regular bus, the RESS may be too big to handle in the test lab. A new term represents the typical part of the RESS should be considered. 2.1 "Rechargeable energy ...

### J2464\_202108 Electric and Hybrid Electric Vehicle Rechargeable Energy

This SAE Recommended Practice is intended as a guide toward standard practice and is subject to change to keep pace with experience and technical advances. It describes a body of tests ...



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