

Automotive

Information Report

J3271_202503 SAE Megawatt Charging System for Electric Vehicles

Issued

3/5/2025

Features



Data Sets



Redlined

Issuing Committee

Hybrid - EV Committee

Scope

This SAE Technical Information Report (TIR) is based on the initial assumption that a system level standard covering all aspects of EV charging components and use cases would grow to be too large for one comprehensive document. Hence, the SAE J3271 work group was launched with five subtopics that could be subsections of one standard or a separate document for each topic.

In this document, all five subtopics are compiled into one document. The recommended practice level documents will follow this structure, with added detail and streamlined content.

The five subtopics that are now subsection numbers in this document include:

- SAE J3271/1 (see 5.1) Electromechanical Coupler Specifications
- SAE J3271/2 (see 5.2) Communication and Controls
- SAE J3271/3 (see 5.3) Cables/Cable Handling, Cooling, and Automated Connection Systems
- SAE J3271/4 (see 5.4) Use Cases Including Grid Interconnection, Black Start, and Bidirectional Power Transfer
- SAE J3271/5 (see 5.5) Interoperability Testing Requirements and Test Procedures

Hierarchical numbering schemes are used in this document with section, subsection, and subtopic levels. First digit is section, second digit is subsection, third digit is subtopic, etc.

This SAE TIR is intended as a guide toward standard practice and is subject to change in order to harmonize with international standards and to keep pace with experience and technical advances.

Meta Tags

Topics

Charging stations

Electric vehicles

Vehicle charging

Details

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Citations

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