



UL 62852

STANDARD FOR SAFETY

Connectors for DC-Application in
Photovoltaic Systems – Safety
Requirements and Tests

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UL Standard for Safety for Connectors for DC-Application in Photovoltaic Systems – Safety Requirements and Tests, UL 62852

First Edition, Dated July 6, 2022

Summary of Topics

First Edition of the UL IEC-Based Standard for Connectors for DC-Application in Photovoltaic Systems – Safety Requirements and Tests, UL 62852, dated July 6, 2022. UL 62852 is an adoption of IEC 62852 (Edition 1.1, issued March 2020). The IEC standard consists of the first edition (2014-11) and its amendment 1 (2020-03). Please note that the National Difference document incorporates all of the U.S. national differences for UL 62852.

The new requirements are substantially in accordance with Proposal(s) on this subject dated November 5, 2021 and May 20, 2022.

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UL 62852

**Standard for Connectors for DC-Application in Photovoltaic Systems –
Safety Requirements and Tests**

First Edition

July 6, 2022

This ANSI/UL Standard for Safety consists of the First Edition.

The most recent designation of ANSI/UL 62852 as an American National Standard (ANSI) occurred on July 6, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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PREFACE

This UL Standard is based on IEC Publication 62852: Edition 1.1, Connectors for DC-Application in Photovoltaic Systems – Safety Requirements and Tests. IEC publication IEC 62852 is copyrighted by the IEC.

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Note – Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

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NATIONAL DIFFERENCES

National Differences from the text of International Electrotechnical Commission (IEC) Publication 62852, Connectors for DC-application in photovoltaic systems – Safety requirements and tests, copyright 2020, are indicated by notations (differences) and are presented in bold text.

There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

DR – These are National Differences based on the **national regulatory requirements**.

D1 – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

D2 – These are National Differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

DC – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

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