

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 62852 : 2020

**Connectors for DC application in
photovoltaic systems — Safety
requirements and tests**

ICS 27.160

Reference number : JIS C 62852 : 2020 (E)

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Date of Establishment: 2020-12-21

Date of Public Notice in Official Gazette: 2020-12-21

Investigated by: Japanese Industrial Standards Committee

Standards Board for IEC area

Technical Committee on Electricity

JIS C 62852 : 2020, First English edition published in 2022-10

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Printed in Japan

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Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Act.

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Connectors for DC-application in photovoltaic systems — Safety requirements and tests

Introduction

This Japanese Industrial Standard has been prepared based on **IEC 62852 : 2014**, Edition 1, and Amendment 1 : 2020 with some modifications of the technical contents to incorporate specifications for wires in Japan. The amendment to the said International Standard has been incorporated into this Standard.

In this Standard, subclause and table numbers followed by a capital letter of Latin alphabet starting with “A” indicate that the subclause or table includes items not given in the corresponding International Standard. The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies safety of connectors for use in the DC circuits of photovoltaic systems according to Class II protection against electric shock specified in **IEC 61140** with rated voltages up to 1 500 V DC and rated currents up to 125 A per contact.

This Standard applies to connectors without breaking capacity but which might be engaged and disengaged under voltage.

This Standard also applies to connectors which are intended to be built-in or integrated in enclosures of devices for photovoltaic systems. This Standard may be used as a guide for connectors in photovoltaic systems of Classes 0 and III protection against electric shock according to **IEC 61140** as well as for protection for Class II equipment intended for use at less than 50 V DC. This Standard does not apply to connectors for data collection, tracking controls or similar, but it may be used as a guide for those connectors.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 62852 : 2014 *Connectors for DC-application in photovoltaic systems — Safety requirements and tests* + Amendment 1 : 2020 (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amend-