



Enclosed and dead-front switches for photovoltaic applications



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***Enclosed and dead-front switches
for photovoltaic applications***



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Preface

This is the first edition of CSA C22.2 No. 304, *Enclosed and dead-front switches for photovoltaic applications*, one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

This Standard is intended to be used in conjunction with CAN/CSA-C22.2 No. 4, *Enclosed and dead-front switches*. The material in this Standard supplements CAN/CSA-C22.2 No. 4 by providing additional requirements for switches that are intended for use in photovoltaic applications.

For general information on the Standards of the *Canadian Electrical Code, Part II*, see the Preface of CAN/CSA-C22.2 No. 0.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Photovoltaic Switches, under the jurisdiction of the Technical Committee on Industrial Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

This standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Interpretations: The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of the standard under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.”

Notes:

- 1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- 2) 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.
- 3) This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.
- 4) To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:
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 - a) Standard designation (number);
 - b) relevant clause, table, and/or figure number;
 - c) wording of the proposed change; and

- d) *rationale for the change.*

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CSA C22.2 No. 304:14

Enclosed and dead-front switches for photovoltaic applications

1 Scope

1.1

This Standard applies to enclosed and dead-front switches for use in photovoltaic (PV) systems rated 1500 V dc maximum, 1200 A maximum.

1.2

Fusible switches for photovoltaic applications are intended for use with photovoltaic systems covered by CSA C22.2 No. 248.19.

1.3

General requirements applicable to this Standard are given in the latest edition of CAN/CSA-C22.2 No. 0.

1.4

This Standard is intended to be used in conjunction with CAN/CSA-C22.2 No. 4, which specifies additional mandatory requirements.

1.5

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to provide separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below.