

INTERNATIONAL STANDARD

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**Bi-directional grid-connected power converters –
Part 1: General and safety requirements**

**Convertisseurs de puissance connectés aux réseaux bidirectionnels –
Partie 1: Exigences générales et de sécurité**

IEC 62909-1:2025

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**Bi-directional grid-connected power converters -
Part 1: General and safety requirements**

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IEC 62909-1 has been prepared by subcommittee 22E: Stabilized power supplies, of IEC technical committee 22: Power electronic systems and equipment. It is an International Standard.

This second edition replaces the first edition published in 2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the title has been changed by adding the wording "and safety";
- b) the scope has been changed in order to clarify the bi-directional grid-connected power converters (GCPs) covered by this document.

The text of this International Standard is based on the following documents:

Draft	Report on voting
22E/288/FDIS	22E/292/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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