

Australian Standard<sup>®</sup>

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**INTERNATIONAL ELECTROTECHNICAL  
VOCABULARY**

**Chapter 551—POWER  
ELECTRONICS**

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This Australian standard was prepared by Committee TE/13, Symbols, Units and Quantities for Electrotechnology. It was approved on behalf of the Council of the Standards Association of Australia on 16 June 1983 and published on 2 December 1983.

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Australian Electrical and Electronic Manufacturers Association Limited  
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Department of Housing and Construction  
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AS 1852(551)—1983

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## PREFACE

This Standard was prepared by the Association's Committee on Symbols, Units and Quantities for Electrotechnology, under the authority of both the Telecommunications and Electronics Standards Board and the Electrical Standards Board. This standard supersedes AS 1852(11)—1970, International Electrotechnical Vocabulary, Static Convertors, which is now withdrawn.

This standard is identical with and has been reproduced from IEC 50(551)—1982. Acknowledgement is accordingly made to the International Electrotechnical Commission for this assistance.

This standard is one of the AS 1852 series of standards. In the past, this series has consisted of direct endorsements of the IEC 50 series of the International Electrotechnical Vocabulary. In future, newly issued parts of IEC 50, where appropriate, will be issued as Australian standards, i.e. not endorsements. The full text of the definitions in English, French and Russian has been included as some definitions are considered to be incomplete when produced in one language.

The purpose of the AS 1852 series is to provide a glossary of terms used in electrical engineering. The series lists terms in English, French and Russian, and in some cases Spanish. It is intended that other Australian Standards will refer to AS 1852 and not repeat any definitions.

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## CONTENTS

<i>Section</i>	<i>Page</i>
551-01 General terms . . . . .	3
551-02 Electronic power convertors and electron power switches . . . . .	5
551-03 Essential components . . . . .	11
551-04 Circuits . . . . .	15
551-05 Operations . . . . .	22
551-06 Characteristics . . . . .	36
551-07 Characteristic curves (of convertors) . . . . .	42
Index . . . . .	45

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## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

## INTERNATIONAL ELECTROTECHNICAL VOCABULARY

## CHAPTER 551—POWER ELECTRONICS

## SECTION 551-01 — GENERAL TERMS

## 551-01-01

**électronique de puissance**

Partie de l'électronique qui traite de la technique de puissance.

**power electronics**

That part of electronics which deals with power technology.

**силовая электроника**

Направление электроники, которое связано с силовой техникой.

## 551-01-02

**conversion (électronique) (de puissance)**

Changement d'une ou de plusieurs caractéristiques d'un système électrique de puissance, essentiellement sans perte de puissance notable, au moyen d'éléments de valve électronique. Ces caractéristiques sont, par exemple, la tension, le nombre de phases et la fréquence, y compris la fréquence zéro.

**(electronic) (power) conversion**

Change of one or more of the characteristics of an electric power system essentially without appreciable loss of power by means of electronic valve devices. Characteristics are for example, voltage, number of phases and frequency (including zero frequency).

**(электронное) (силовое) преобразование**

Изменение одного или нескольких параметров электрической энергии с помощью электронных вентильных приборов, осуществляемое без значительной потери энергии. В параметры электрической энергии входят, например, частота (включая нулевую частоту), напряжение, число фаз.

## 551-01-03

**ouverture et fermeture (électronique) d'un circuit (de puissance)**

Ouverture et fermeture d'un circuit électrique de puissance au moyen d'éléments de valve électronique.

**(electronic) (power) switching**

Switching an electric power circuit by means of electronic valve devices.

**(электронное) переключение в силовой цепи**

Переключение (включение, выключение) электрической силовой цепи, осуществляемое посредством электронных вентильных приборов.