

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Wireless power transfer – Management –
Part 1: Common components**

**Transfert de puissance sans fil – Gestion –
Partie 1: Composants communs**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**WIRELESS POWER TRANSFER –
MANAGEMENT –****Part 1: Common components**

FOREWORD

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International Standard IEC 62827-1 has been prepared by technical area 15: Wireless power transfer, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

CDV	Report on voting
100/2451/CDV	100/2538/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62827 series, published under the general title *Wireless power transfer – Management*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
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INTRODUCTION

The IEC 62827 (Wireless power transfer – Management) series provides the management protocol for a wireless power transfer system in which power sources can deliver power to receivers at a distance. IEC 62827 consists of the following parts:

- Part 1: Common components
- Part 2: Multiple devices control management
- Part 3: Multiple sources control management

Part 1 of IEC 62827 defines the definition and functionality for a wireless power transfer system.

Part 2 of IEC 62827 specifies the management protocol of wireless power transfer for multiple devices.

Part 3 of IEC 62827 specifies the management protocol of wireless power transfer for multiple sources.

WIRELESS POWER TRANSFER – MANAGEMENT –

Part 1: Common components

1 Scope

This part of IEC 62827 specifies common components of management for multiple sources and devices in a wireless power transfer system, and justifies various functions for wireless power transfer.

This part of IEC 62827 defines the reference models for possible configurations of a wireless power transfer system. The models are specified in additional parts in more detail.

NOTE This standard is applied to a wireless power transfer system for audio, video and multimedia equipment.

2 Terms, definitions and abbreviations

2.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1.1

wireless power receiver

device which receives electric power wirelessly

Note 1 to entry: There are two types of wireless power receivers. One is a wireless power receiver with battery. The other is a wireless power receiver without battery, such as speakers and displays.

2.1.2

wireless power source

transmitter which delivers electric power to power receiver wirelessly

2.1.3

wireless power transfer

transfer of electric power without the physical contact of electrodes

2.1.4

wireless data communication zone

area that includes wireless power sources or wireless power receivers, and enables data communication without physical contact

Note 1 to entry: A wireless data communication zone includes a wireless power transfer zone.

Note 2 to entry: A wireless data communication zone can be a union of multiple wireless data communication zones managed by multiple wireless power sources.

2.1.5

wireless power transfer zone

area that includes wireless power sources or wireless power receivers, and enables power transfer without physical contact

Note 1 to entry: A wireless power transfer zone can be a union of multiple wireless power transfer zones managed by multiple wireless power sources.