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Wireless power transfer – Management – Part 2: Multiple device control management

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WIRELESS POWER TRANSFER – MANAGEMENT –

Part 2: Multiple device control management

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

FDIS	Report on voting
100/2900/FDIS	100/2939/RVD

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

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

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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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. The IEC 62827 series consists of the following parts:

- Part 1: Common components
- Part 2: Multiple device control management
- Part 3: Multiple source control management

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

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 2: Multiple device control management

1 Scope

This part of IEC 62827 defines a wireless power management protocol for wireless power transfer to multiple devices in a wireless power management system. Various functions of wireless power management systems are justified. The wireless power management frames and messages that work between the management block of a power source and the management block or the coupler block of a device, or the coupler block of a power source, are defined as well to execute various functions. Also, the procedures for each functionality are described based on its frames and messages.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62827-1, *Wireless power transfer – Management – Part 1: Common components*

3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms and definitions given in IEC 62827-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1 Definitions

3.1.1
COM ID
ID which is allocated to power a receiver within the wireless data communication zone of the wireless power source

3.1.2
wireless data communication zone
area where a wireless power source can transfer data to wireless power receivers without physical contact

3.1.3
wireless power management frame
format of the data which is exchanged between a wireless power source and a wireless power receiver