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Wireless Power Transfer - AirFuel Resonant Baseline System Specification (BSS)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/18

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**EN 63028**

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English Version

Wireless Power Transfer - AirFuel Resonant Baseline System  
Specification (BSS)  
(IEC 63028:2017)

Transfert d'énergie sans fil - Interopérabilité relative à la  
résonance magnétique - Spécification du système de  
référence (BSS) A4WP  
(IEC 63028:2017)

Drahtlose Energieübertragung - Magnetische Resonanz  
Interoperabilität - A4WP Grundlegende System  
Spezifikation (BSS)  
(IEC 63028:2017)

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The text of document 100/2901/FDIS, future edition 1 of IEC 63028, prepared by Technical Area 15 "Wireless power transfer" of IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 63028:2017.

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**Annex ZA**

(normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
Airfuel Wireless Power Transfer System Baseline System Specification (BSS) v1.3	-	Available at: <a href="http://www.airfuel.org/technologies/specification-download">http://www.airfuel.org/technologies/specification-download</a>		-
Airfuel Wireless Power Transfer System Baseline System Specification (BSS) v1.2.1		Available at: <a href="http://www.airfuel.org/technologies/specification-download">http://www.airfuel.org/technologies/specification-download</a>		
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Edition 1.0 2017-06

# INTERNATIONAL STANDARD



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**Wireless power transfer – Airfuel alliance resonant baseline system specification  
(BSS)**



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IEC 63028

Edition 1.0 2017-06

# INTERNATIONAL STANDARD



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**Wireless power transfer – Airfuel alliance resonant baseline system specification  
(BSS)**

INTERNATIONAL  
ELECTROTECHNICAL  
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**WIRELESS POWER TRANSFER – AIRFUEL ALLIANCE RESONANT  
BASELINE SYSTEM SPECIFICATION (BSS)**

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International Standard IEC 63028 has been prepared by technical area 15: Wireless power transfer, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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FDIS	Report on voting
100/2901/FDIS	100/2941/RVD

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## INTRODUCTION

In today's world, mainstream consumer mobile devices are ubiquitously supported by wireless technologies for data communication and connectivity functions while charging function is primarily supported by wired technologies. The development of wireless power transfer technologies offers increased user convenience for charging mobile devices; technologies include inductive, resonant, uncoupled (RF, ultrasonic, laser) methods.

IEC 63028 defines a specific wireless charging approach based on resonant technology and specifies technical requirements for the AirFuel<sup>TM</sup><sup>1</sup> resonant wireless power transfer (WPT) systems.

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<sup>1</sup> AirFuel<sup>TM</sup> is the trade name of a product supplied by AirFuel Alliance. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the product named.

## **WIRELESS POWER TRANSFER – AIRFUEL ALLIANCE RESONANT BASELINE SYSTEM SPECIFICATION (BSS)**

### **1 Scope**

This document defines technical requirements, behaviors and interfaces used for ensuring interoperability for flexibly coupled wireless power transfer (WPT) systems for AirFuel Resonant WPT. This document is based on AirFuel Wireless Power Transfer System Baseline System Specification (BSS) v1.3.

Products implementing this document are expected to follow applicable regulations and global standards.

### **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.

AirFuel Wireless Power Transfer System Baseline System Specification (BSS) v1.3 [viewed 2017-03-13]. Available at: <http://www.airfuel.org/technologies/specification-download>

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