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Spatial wireless power transfer based on multiple magnetic resonances - Part 1: Requirements

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. 07/21

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EUROPEAN STANDARD

**EN IEC 63245-1**

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April 2021

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English Version

## Spatial wireless power transfer based on multiple magnetic resonances - Part 1: Requirements (IEC 63245-1:2021)

Transfert d'énergie sans fil dans l'espace reposant sur des résonances magnétiques multiples - Partie 1: Exigences  
(IEC 63245-1:2021)

Räumliche drahtlose Energieübertragung basierend auf mehrfachen magnetischen Resonanzen - Teil 1:  
Anforderungen  
(IEC 63245-1:2021)

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**EN IEC 63245-1:2021 (E)****European foreword**

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IEC 62827-3	NOTE	Harmonized as EN 62827-3
IEC 63006:2019	NOTE	Harmonized as EN IEC 63006:2019 (not modified)
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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Spatial wireless power transfer based on multiple magnetic resonances –  
Part 1: Requirements**

**Transfert d'énergie sans fil dans l'espace reposant sur des résonances  
magnétiques multiples –  
Partie 1: Exigences**



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IEC 63245-1

Edition 1.0 2021-03

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# NORME INTERNATIONALE



**Spatial wireless power transfer based on multiple magnetic resonances –  
Part 1: Requirements**

**Transfert d'énergie sans fil dans l'espace reposant sur des résonances  
magnétiques multiples –  
Partie 1: Exigences**

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## SPATIAL WIRELESS POWER TRANSFER BASED ON MULTIPLE MAGNETIC RESONANCES –

### Part 1: Requirements

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FDIS	Report on voting
100/3548/FDIS	100/3564/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.

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## INTRODUCTION

The IEC 63245 (Spatial wireless power transfer based on multiple magnetic resonances, SWPT-MMR) series provides requirements and a reference model for implementing a spatial wireless power transfer system. The IEC 63245 series consists of the following parts:

- IEC 63245-1: *Spatial wireless power transfer based on multiple magnetic resonances – Part 1: Requirements*, which describes requirements of SWPTs with multiple magnetic resonances; and
- IEC 63245-2: *Spatial wireless power transfer based on multiple magnetic resonances – Part 2: Reference model*, which describes a reference model for SWPTs with multiple magnetic resonances.

# **SPATIAL WIRELESS POWER TRANSFER BASED ON MULTIPLE MAGNETIC RESONANCES –**

## **Part 1: Requirements**

### **1 Scope**

This part of IEC 63245 specifies requirements for spatial wireless power transfer based on multiple magnetic resonances (SWPT-MMR), which is a non-radiative wireless power transfer (WPT). This document contains two categories of requirements: general requirements and functional requirements. The general requirements cover charging procedures and charging zones. The functional requirements cover each component of a SWPT-MMR system, such as transmitter coils.

### **2 Normative references**

There are no normative references in this document.

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