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**Viri napajanja brezžične komunikacijske naprave - 1. del: Splošne zahteve za napajalne module (IEC 62952-1:2016)**

Power sources for a wireless communication device - Part 1: General requirements of power modules (IEC 62952-1:2016)

Energiequellen für ein Funkkommunikationsgerät - Teil 1: Allgemeine Anforderungen an Energiemodule (IEC 62952-1:2016)

Sources d'énergie pour un appareil de communication sans fil - Partie 1: Exigences générales relatives aux modules d'alimentation (IEC 62952-1:2016)

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**Ta slovenski standard je istoveten z: EN 62952-1:2016**

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29.220.10	Primarni členi in baterije	Primary cells and batteries
33.040.40	Podatkovna komunikacijska omrežja	Data communication networks

**SIST EN 62952-1:2017****en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62952-1**

December 2016

ICS 29.220.10; 33.040.40

English Version

**Power sources for a wireless communication device - Part 1:  
General requirements of power modules  
(IEC 62952-1:2016)**

Sources d'énergie pour un appareil de communication sans  
fil - Partie 1: Exigences générales relatives aux modules  
d'alimentation  
(IEC 62952-1:2016)

Energiequellen für ein Funkkommunikationsgerät - Teil 1:  
Allgemeine Anforderungen an Energiemodule  
(IEC 62952-1:2016)

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SIST EN 62952-1:2017

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 62952-1:2016****European foreword**

The text of document 65B/1053/FDIS, future edition 1 of IEC 62952-1, prepared by SC 65B "Measurement and control devices" of IEC/TC 65 "Industrial process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62952-1:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-08-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-11-09

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IEC 60086-2

NOTE Harmonized as EN 60086-2.

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**Annex ZA**

(normative)

**Normative references to international publications  
with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60079-0 (mod)	2011	Explosive atmospheres -- Part 0: Equipment - General requirements	EN 60079-0	2012
-	-		+ A11	2013
IEC 60079-11	2011	Explosive atmospheres -- Part 11: Equipment protection by intrinsic safety "i"	EN 60079-11	2012
IEC 60086-1	-	Primary batteries - Part 1: General	EN 60086-1	-
IEC 60654-3	-	Operating conditions for industrial-process measurement and control equipment -- Part 3: Mechanical influences	EN 60654-3	-
IEC 60721-3-4	1995	Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities -- Section 4: Stationary use at non-weatherprotected locations	EN 60721-3-4	1995
IEC 61326	series	Electrical equipment for measurement, control and laboratory use - EMC requirements	-	series
IEC 62952-2	2016	Power sources for a wireless communication device - Part 2: profile for power modules with batteries	-	-
IEC 62952-3	-	Power sources for a wireless communication device - Part 3: Energy harvesting specification	-	-

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Edition 1.0 2016-10

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Power sources for a wireless communication device –  
Part 1: General requirements of power modules**

**Sources d'énergie pour un appareil de communication sans fil –  
Partie 1: Exigences générales relatives aux modules d'alimentation**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**POWER SOURCES FOR A WIRELESS COMMUNICATION DEVICE –****Part 1: General requirements of power modules****FOREWORD**

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International Standard IEC 62952-1 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation.

This International Standard is based on VDI/VDE 2185 Blatt 3.

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

FDIS	Report on voting
65B/1053/FDIS	65B/1056/RVD

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

A list of all parts of the IEC 62952 series, published under the general title *Power source for a wireless communication device*, can be found on the IEC website.

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

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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## INTRODUCTION

Industrial wireless communication network devices like a pressure transmitter or a valve positioner are mostly using non-copper-cable power sources. These devices are using a power module for their power source that can contain a battery and / or an energy harvesting element. In order to increase usability, power source of wireless sensors and actuators require a standardized interface and harmonized requirements.

This part of IEC 62952 specifies interface and specification of power source of wireless devices and does not specify the mechanical interface within a wireless communication device and the power source. Additionally, energy harvesting is a key technology for power source of wireless devices. This document also specifies interface and specification of energy harvesting devices.

This document addresses the general requirements of power sources for wireless communication devices.

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