



BSI Standards Publication

# Power sources for a wireless communication device

Part 2: Profile for power modules with batteries

**National foreword**

This British Standard is the UK implementation of EN 62952-2:2016. It is identical to IEC 62952-2:2016.

The UK participation in its preparation was entrusted by Technical Committee GEL/65, Measurement and control, to Subcommittee GEL/65/2, Elements of systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

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**Amendments/corrigenda issued since publication**

Date	Text affected
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EUROPEAN STANDARD

**EN 62952-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 33.040.40; 29.220.10

English Version

**Power sources for a wireless communication device - Part 2:  
Profile for power modules with batteries  
(IEC 62952-2:2016)**

Sources d'énergie pour un appareil de communication sans  
fil - Partie 2: Profil des modules d'alimentation à batteries  
(IEC 62952-2:2016)

Energiequellen für ein Funkkommunikationsgerät - Teil 2:  
Profil für Energiemodule mit Batterien  
(IEC 62952-2:2016)

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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**

## **European foreword**

The text of document 65B/1054/FDIS, future edition 1 of IEC 62952-2, 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 62952-2:2016.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-11-09

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The text of the International Standard IEC 62952-2:2016 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60086-1:2015	NOTE	Harmonized as EN 60086-1:2015.
IEC 60086-1:2015	NOTE	Harmonized as EN 60086-1:2016.

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

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**POWER SOURCES FOR A WIRELESS COMMUNICATION DEVICE –****Part 2: Profile for power modules with batteries**

## FOREWORD

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International Standard IEC 62952-2 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation.

This standard is to be used in conjunction with IEC 62952-1:2016.

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

FDIS	Report on voting
65B/1054/FDIS	65B/1057/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, 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
- amended.



## INTRODUCTION

This Part 2 of IEC 62952 deals with a power module based on batteries. It provides one profile of IEC 62952-1 and a specific selection of batteries specified in other International Standards. It does not specify a battery.

# POWER SOURCES FOR A WIRELESS COMMUNICATION DEVICE –

## Part 2: Profile for power modules with batteries

### 1 Scope

IEC 62952-2:2016 specifies a profile for a power module containing batteries used as power source for wireless communication devices.

### 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 62952-1:2016, *Power sources for a wireless communication device – Part 1: General requirements of power sources*

### 3 Terms, definitions, abbreviated terms, acronyms and conventions

#### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62952-1 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>

#### 3.2 Abbreviated terms and acronyms

For the purposes of this document, the abbreviated terms and acronyms given in IEC 62952-1 apply.

#### 3.3 Convention for profiles

The profile is a selection of (sub)clause of one or more documents defined in tables, as shown in Table 1 and Table 2. The selected base specifications are indicated just before the selection table(s). Selection is done at the highest (sub)clause level possible to define the profile selection unambiguously.

**Table 1 – Layout of profile (sub)clause selection tables**

Clause	Header	Presence	Constraints

**Table 2 – Contents of (sub)clause selection tables**

Column	Text	Meaning
Clause	<#>	(sub)clause number of the base specifications
	Next clauses	any following clauses up to the last clause of the base specification
	Next Annexes	any following annexes up to the last annex of the base specification
Header	<text>	(sub)clause title of the base specifications
Presence	NO	This (sub)clause is not included in the profile
	YES	This (sub)clause is fully (100 %) included in the profile in this case no further detail is given
	—	Presence is defined in the following subclauses
	Partial	Parts of this (sub)clause is included in the profile
Constraints	See <#>	Constraints/remarks are defined in the given subclause, table or figure of this profile document
	—	No constraints other than given in the reference document (sub)clause, or not applicable
	<text>	The text defines the constraint directly, for longer text table footnotes or table notes may be used

If sequences of (sub)clauses do not match the profile, then the numbers are concatenated.

EXAMPLE 1 concatenated subclauses

3.4 – 3.7	—	NO	—
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EXAMPLE 2 concatenated clauses up to the last clause

Next clauses	—	NO	—
--------------	---	----	---

EXAMPLE 3 concatenated annexes up to the last annex

Next annexes	—	NO	—
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#### 4 Profile for power modules with batteries

The general requirements for the power modules are specified in IEC 62952-1.

Table 3 specifies a general power module profile selection within IEC 62952-1.

**Table 3 – General power module profile selection**

(Sub)Clause	Header	Presence	Constraints
1	Scope	YES	—
2	Normative references	YES	—
3	Terms, definitions, abbreviated terms, acronyms and conventions	YES	—
4	General requirements	—	—
4.1	General	YES	—
4.2	Compliance	YES	—
4.3	Design	YES	—
4.4	Logistics	—	—
4.4.1	Storage and marking	YES	—
4.4.2	Maintenance	YES	—
4.4.3	Transportation in a plant	YES	—
4.4.4	Disposal	YES	—
4.5	Protection for explosive atmospheres	YES	Optional
4.5.1	General	YES	—
4.5.2	Transportation and replacement	YES	—
4.5.3	Battery requirements	YES	—
4.5.4	Temperature	YES	—
4.5.5	Air pressure	YES	—
4.6	Harsh environment	—	—
4.6.1	General	YES	—
4.6.2	Vibration and shock	YES	Optional
4.6.3	Humidity	YES	Optional
4.6.4	Temperature	YES	Optional
4.6.5	Corrosive environment	YES	Optional
4.6.6	Air pressure	YES	Optional
4.7	Interchangeability	—	—
4.7.1	General	YES	—
4.7.2	Electrical interface	YES	—
4.7.3	Mechanical interface	YES	—
4.8	Electrical parameters	YES	—

## Bibliography

IEC 60086-1:2015, *Primary batteries – Part 1: General*

IEC 60086-2:2015, *Primary batteries – Part 2: Physical and electrical specifications*

VDI/VDE 2185 Blatt 3, available at <Beuth Verlag GmbH>

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