

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Power sources for a wireless communication device –  
Part 3: Generic energy harvesting adapter module**

**Sources d'énergie pour un appareil de communication sans fil –  
Part 3: Module générique d'adaptateur de récupération d'énergie**



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**POWER SOURCES FOR A WIRELESS COMMUNICATION DEVICE –****Part 3: Generic energy harvesting adapter module**

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This standard is to be used in conjunction with IEC 62952-1. Is it based on the first edition of that standard (2016).

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

FDIS	Report on voting
65B/1080/FDIS	65B/1084/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.

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

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

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## INTRODUCTION

This document deals with a power module based on energy harvesting. It provides one profile of IEC 62952-1 and specifics for a generic energy harvesting adapter module (GEHAM) with a backup battery (Type C). It does not specify a battery specification.

# POWER SOURCES FOR A WIRELESS COMMUNICATION DEVICE –

## Part 3: Generic energy harvesting adapter module

### 1 Scope

This part of IEC 62952 specifies requirements and a profile for a power source containing a generic energy harvesting adapter module (GEHAM) used as power source for wireless communication devices (WCD).

### 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 60304, *Standard colours for insulation for low-frequency cables and wires*

IEC 61076-2-101, *Connectors for electronic equipment – Product requirements – Part 2-101: Circular connectors – Detail specification for M12 connectors with screw-locking*

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

### 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 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>

##### 3.1.1 energy harvesting

process by which energy is derived from external sources (e.g., solar power, thermal energy, wind energy, salinity gradients and kinetic energy), captured, and stored

##### 3.1.2 energy storage capacitor

power capacitor intended to store energy and to release it within a very short time

[SOURCE: IEC 60050-436:1990, 436-02-08]

#### 3.2 Abbreviated terms and acronyms

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