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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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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions, abbreviated terms, acronyms and conventions.....	7
3.1 Terms and definitions.....	7
3.2 Abbreviated terms and acronyms	7
3.3 Convention for capitalizations	8
3.4 Convention for profiles.....	9
4 Specific requirements for power sources with energy harvesting	9
4.1 General.....	9
4.2 GEHAM and energy harvester.....	9
4.3 Mechanical requirements	9
4.3.1 Connector.....	9
4.3.2 Flying lead.....	9
4.3.3 Cable specification	10
4.3.4 Enclosure shape.....	10
4.4 Electrical characteristics	10
4.4.1 General	10
4.4.2 Input rating of GEHAM.....	10
4.4.3 Output rating of GEHAM	10
4.4.4 Protections	10
4.5 Communication interface.....	10
5 Profile for power modules with energy harvesting	10
Annex A (informative) Mechanical options.....	12
Annex B (normative) Cable and connector specification.....	15
B.1 General requirements	15
B.2 Pin 1, Ground	16
B.3 Pin 2, Digital communication interface	16
B.4 Pin 3, DC power (positive)	17
B.5 Pin 4, Sense	17
B.6 Pin 5, Reserved	17
Bibliography.....	18
Figure A.1 – Option 1: Fixed connection on energy harvester, connector on GEHAM.....	12
Figure A.2 – Option 2: Connectors on both energy harvester and GEHAM	12
Figure A.3 – Option 3: Cable fixed on energy harvester, Flying Lead to GEHAM.....	13
Figure A.4 – Option 4: Connector on energy harvester end, Flying Lead connection to GEHAM	13
Figure A.5 – Option 5: Flying-lead interface on energy harvester, flying-lead interface on GEHAM side	13
Figure A.6 – GEHAM is inside, energy harvester is outside of WCD.....	14
Figure A.7 – GEHAM and energy harvester are outside of WCD, it supplies to built-in power source	14
Figure B.1 – M12 male.....	15

Figure B.2 – M12 female 16

Figure B.3 – Flying lead 16

Table 1 – Layout of profile (sub)clause selection tables 8

Table 2 – Contents of (sub)clause selection tables 8

Table 3 – General power module profile selection 11

Table 4 – Power Module Type C profile selection 11

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

POWER SOURCES FOR A WIRELESS COMMUNICATION DEVICE –

Part 3: Generic energy harvesting adapter module

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International Standard IEC 62952-3 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial process measurement, control and automation. ISA-d100.18.01 provided the initial input.

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

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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.