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Responsible committee: PEL/23 Electrical accessories

Interested committees:

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Title: BS EN IEC 63552 Particular requirements for Switching Device For Islanding

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Responsible Committee Secretary: **Mr Simon Bounds (BSI)**Direct tel: **0208 996 7281**E-mail: [simon.bounds@bsigroup.com](mailto:simon.bounds@bsigroup.com)

## Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

## UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

## Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

## Template for comments and secretariat observations

|                  |                        |
|------------------|------------------------|
| Date: xx/xx/20xx | Document: ISO/DIS xxxx |
|------------------|------------------------|

| 1  | 2                                          | (3)                          | 4               | 5                                                                                                                                  | (6)                                                                      | 7                                                  |
|----|--------------------------------------------|------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------|
| MB | Clause No./ Subclause No./Annex (e.g. 3.1) | Paragraph/Figure/ Table/Note | Type of comment | Commend (justification for change) by the MB                                                                                       | Proposed change by the MB                                                | Secretariat observations on each comment submitted |
|    | 3.1                                        | Definition 1                 | ed              | Definition is ambiguous and needs clarifying.                                                                                      | Amend to read '...so that the mains connector to which no connection...' |                                                    |
|    | 6.4                                        | Paragraph 2                  | te              | The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK. | Delete reference to UV photometer.                                       |                                                    |



# 23K/99/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

**IEC 63552 ED1**

DATE OF CIRCULATION:

**2024-07-26**

CLOSING DATE FOR COMMENTS:

**2024-10-18**

SUPERSEDES DOCUMENTS:

**23K/88/NP, 23K/94/RVN**

IEC SC 23K : ELECTRICAL ENERGY EFFICIENCY PRODUCTS

SECRETARIAT:

France

SECRETARY:

Mr Philippe Vollet

OF INTEREST TO THE FOLLOWING COMMITTEES:

TC 8, SC 23B, SC 23E, TC 64, SC 121A

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

Energy Efficiency

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Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

**Particular requirements for Switching device for islanding**

NOTE FROM TC/SC OFFICERS:

SC23K officers support this IEC 63552 CD circulation, and encourage each NC to comment.

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SWITCHING DEVICE FOR ISLANDING (SDFI)****FOREWORD**

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

| Draft       | Report on voting |
|-------------|------------------|
| 23K/XX/FDIS | 23K/XX/RVD       |

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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112

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113

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INTRODUCTION

IEC 60364-8-82 has the objective to ensure that the low-voltage electrical installation is compatible with the existing and future ways to deliver safely and functionally the electrical energy to current-using equipment wherever the electrical energy comes from the DSO or local generation. IEC 60364-8-82 provides requirements and recommendations that apply to low-voltage electrical installations connected or not to a distribution network able to operate:

- with local power supplies, and/or
  - with local storage units,
- and that monitors and controls the energy from the locally connected sources delivering it to:
- current-using equipment, and/or
  - local storage units, and/or
  - distribution networks.

Such electrical installations are designated as prosumer's electrical installations (PEIs) by IEC 60364-8-82 which defines specific devices (or functions) to ensure the correct and safe operation of PEI depending on their operating mode. In the case of an islandable PEI, IEC 60364-8-82 defines a “Switching Device For islanding (SDFI), identified as device 4 in Figure 1 (reproduced from IEC 60364-8-82:2022, Figure 4).

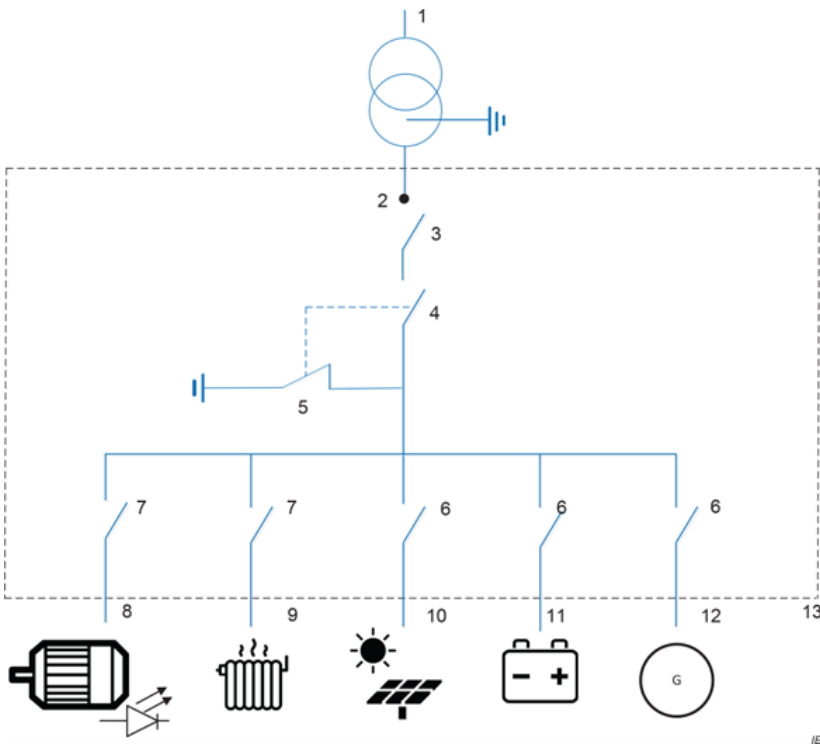


Figure 1 – Example of islandable PEI architecture

| Key |                                               |
|-----|-----------------------------------------------|
| 1   | Distribution network                          |
| 2   | Point of connection (POC)                     |
| 3   | Main switching device                         |
| 4   | Switching device for islanding (SDFI)         |
| 5   | System referencing conductor switching device |
| 6   | Source switching device                       |
| 7   | Load switching device                         |
| 8   | Non-sheddable loads (sensitive loads)         |
| 9   | Sheddable loads (adjustable loads)            |
| 10  | Solar generator                               |
| 11  | Electrical energy storage system              |
| 12  | Other generator (wind, etc.)                  |
| 13  | Main distribution board                       |