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Edition 1.2
Amdt 2

SOUTH AFRICAN NATIONAL STANDARD

Photovoltaic systems for use in individual homes, schools and clinics

Part 2-5: Test procedures for main components — Luminaires

WARNING

This document references other documents normatively.

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Table of changes

| Change No. | Date | Scope |
|------------|------|--|
| Amdt 1 | 2013 | Amended to update referenced standards. |
| Amdt 2 | 2017 | Amended to change the designation "SANS 959-2-5/NRS 052-2-5" to read "SANS 959-2-5", to delete the note to the normative reference clause, and to update referenced standards. |

Foreword

This South African standard was prepared by National Committee SABS/TC 069, *Power electronics and alternative energy conversion*, in accordance with procedures of the SABS, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in June 2017.

This document supersedes SANS 959-2-5:2013 (edition 1.1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 2.

Reference is made in the note to 1.2 and in 4.1(a) to "legislated standards". In South Africa these standards are referenced in the *Compulsory specification for electrical and electronic apparatus*, as published by Government Notice No. R 89 (Government Gazette 31844) of February 2009.

SANS 959 consists of the following parts and sections, under the general title *Photovoltaic systems for use in individual homes, schools and clinics*:

Part 1: Standardized requirements applicable to off-grid individual homes, schools and clinics.

Part 2-1: Test procedures for main components – Photovoltaic modules.

Part 2-2: Test procedures for main components – Batteries.

Part 2-3: Test procedures for main components – Regulators, charge controllers and maximum power point trackers (MPPTs).

Part 2-4: Test procedures for main components – Inverters.

Part 2-5: Test procedures for main components – Luminaires.

Part 3: Standardized requirements applicable to the installation and maintenance of off-grid systems in individual homes, schools and clinics.

Compliance with this document cannot confer immunity from legal obligations.

Introduction

This section of SANS 959-2 has been developed to standardize the testing of luminaires for photovoltaic systems as applicable to the systems envisaged in SANS 959-1 for a national programme to provide solar power supplies to individual homes, schools and clinics remote from the electricity grid. **Amdt 2**

This section of SANS 959-2 covers luminaires that incorporate high efficiency fluorescent lamps of the tubular type or the compact type that are suitable for operation on a d.c. 12 V supply. **Amdt 2**

This section of SANS 959-2 now includes a.c. luminaires and lamps for voltaic systems and preliminary test procedures for LEDs. **Amdt 2**

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