

**SRI LANKA STANDARD 1543 PART 1 : 2016**

**IEC 62109 - 1 : 2010**

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**SPECIFICATION FOR  
SAFETY OF POWER CONVERTERS FOR  
USE IN PHOTOVOLTAIC POWER SYSTEMS  
PART 1 : GENERAL REQUIREMENTS**

**SRI LANKA STANDARDS INSTITUTION**

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PART 1: GENERAL REQUIREMENTS**

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IEC 62109 - 1 : 2010**

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**SRI LANKA STANDARDS INSTITUTION  
17, Victoria Place  
Elvitigala Mawatha  
Colombo 8  
Sri Lanka**

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SAFETY OF POWER CONVERTERS FOR USE IN PHOTOVOLTAIC POWER SYSTEMS  
PART 1 : GENERAL REQUIREMENTS**

**NATIONAL FOREWORD**

This standard was approved by the Sectoral Committee on Electronic Engineering and was authorized for adoption and publication as a Sri Lanka Standard by the Council of Sri Lanka Standards Institution on 2016-11-24.

SLS 1543 Sri Lanka Standard Specification for Safety of power converters for use in photovoltaic power systems is published in two parts as follows:

Part 1: General requirements

Part 2: Particular requirements for inverters

This part of standard is identical with IEC 62109, Safety of power converters for use in photovoltaic power systems, Part 1: 2010 Edition 1.0 General requirements, published by the International Electrotechnical Commission (IEC).

All values given in this standard is in SI units.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or an analysis shall be rounded off in accordance with SLS 102, in case if the method of rounding off is not specified in the text of this standard. The number of figures to be retained in the rounded off value, shall be the same as that of the specified value in this standard.

**Terminology and conventions**

The text of the International Standard has been accepted as suitable for publication, without any deviation as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards; attention is therefore drawn to the following:

- a) Wherever the words “International Standard” appear referring to this standard they should be interpreted as “Sri Lanka Standard”.
- b) Wherever the page numbers are quoted they are the page numbers of IEC standard.
- c) The comma has been used as a decimal marker. In Sri Lanka Standards it is the current practices to use a full point on the base line as a decimal marker.
- d) Attention is drawn to the possibility that some of the elements of the Sri Lanka Standard may be the subject of patent rights. SLSI shall not be held responsible for identifying any or all such patent rights.



# INTERNATIONAL STANDARD



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## Safety of power converters for use in photovoltaic power systems – Part 1: General requirements



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