

DRAFT SAINT LUCIA NATIONAL STANDARD

DNS/ IEC 61558-1:2005+A1:2009

**SAFETY OF POWER TRANSFORMERS, POWER SUPPLIES,
REACTORS AND SIMILAR PRODUCTS - PART 1: GENERAL
REQUIREMENTS AND TESTS
(IEC 61558-1:2005+A1:2009, IDT)**

Edition 2.1

Stage 40 – Enquiry Stage

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**SAINT LUCIA BUREAU OF STANDARDS
P. O. BOX CP 5412
BISEE INDUSTRIAL ESTATE
CASTRIES
SAINT LUCIA**

TEL: 758 – 453-0049

FAX: 758 – 452-3561

E-MAIL: slbs@candw.lc

Website: www.slbs.org.lc

THIS IS AN IDENTICAL ADOPTION OF IEC 61558-1:2005+A1:2009

GENERAL STATEMENT

The Saint Lucia Bureau of Standards was established under the Standards Act (No. 14 of 1990) and started operations on 01 April 1991. A broad-based 15-member Standards Council directs the affairs of the Bureau.

The Standards Act gives the Bureau the responsibility to develop and promote standards and codes of practice for products and services for the protection of the health and safety of consumers and the environment as well as for industrial development in order to promote the enhancement of the economy of Saint Lucia. The Bureau develops standards through consultations with relevant interest groups. In accordance with the provisions of the Standards Act, public comment is invited on all draft standards before they are declared as Saint Lucia National Standards.

The Bureau also administers the Metrology Act No. 17 of 2000. This legislation gives the Bureau the responsibility to regulate all weights and measures and to manage and co-ordinate the metrication of Saint Lucia.

The Bureau operates a Product Certification Scheme applicable to all products for which national standards exist. If a product satisfies all the requirements for certification, a licence to carry the **Saint Lucia Standard Mark** is issued to the manufacturer of the product. The presence of the mark on a product indicates that the product conforms to all the requirements of a specific national standard and assures consistent quality (of the product) to the consumer.

The Bureau is a member body of the International Organisation for Standardisation (ISO), an affiliate member of the International Electrotechnical Commission (IEC) and a member of the CARICOM Regional Organisation for Standards and Quality (CROSQ) and the Pan American Standards Commission (COPANT). The Bureau is the local agent for several foreign standards bodies such as the British Standards Institution (BSI) and the ASTM International (formerly known as the American Society for Testing and Materials). The Bureau serves as the enquiry point for the World Trade Organisation (WTO) on matters pertaining to the Technical Barriers to Trade (TBT) Agreement. The Bureau also serves as the National CODEX Alimentarius enquiry point with responsibility for coordinating national positions on CODEX matters.

In accordance with good practice for the adoption and application of standards, Saint Lucia National Standards are subject to review every five years. Suggestions for improvements are always welcomed at any time after publication of the standard.

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AMENDMENTS ISSUED SINCE LAST PUBLICATION

Amendment No.	Date of issue	Type of Amendment	Text(s) Affected
A1	Feb 2009	Technical	Clause 5.13, 8.14 and 27.2

ATTACHMENT PAGE FOR SLBS AMENDMENT SHEET

Amendment attached in entirety from IEC overleaf.

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TECHNICAL COMMITTEE FOR ELECTRICAL AND ELECTRONICS

The following persons comprised the Technical Committee which was responsible for overseeing the adoption of the standard:

Chairman

Gilroy Pultie

Representing

Saint Lucia Electricity Services

Members

Chesterfield Octave

National Consumers Association

Cletus Cyril

Ministry of Commerce, Business
Development and Consumer Affairs –
Consumer Affairs Department

Cosmos Alexander

Sir Arthur Lewis Community College

Cuthbert Marshall

Marshalls Electronics

David A. Hird

General Interest

Fastus Serieux

Saint Lucia Fire Service

Lindsey Philbert

Sir Arthur Lewis Community College

Michael Henry

Ministry of Infrastructure, Port Services
and Transport

Nigel Fulgence

General Interest

Anselm Gittens

Saint Lucia Bureau of Standards

Edgar Stephen (Technical Secretary)

Saint Lucia Bureau of Standards

Kensha Neptune (Recording Secretary)

Saint Lucia Bureau of Standards

National foreword

This national standard **SLNS/ IEC 61558-1:2005+A1:2009** is an identical adoption of the IEC 61558-1:2005+AMD1: Safety of power transformers, power supplies, reactors and similar products - Part 1: general requirements and tests. This is the 2nd Edition of the international publication and replaces and supersedes previously adopted national standard SLNS/BS EN 61558-1:1998 Safety of power transformers, power supply units and similar-Pt 1: General requirements.

This standard was adopted by the national standards council on.....

SLNS/IEC 61558-1:2005+A1:2009 deals with safety aspects of power transformers, power supplies, reactors and similar products such as electrical, thermal and mechanical safety. This standard covers types of dry-type transformers, power supplies, including switch mode power supplies, and reactors, the windings of which may be encapsulated or non-encapsulated.

A transformer is an electrical device that transfers electrical energy between two or more circuits through electromagnetic induction. Electromagnetic induction produces an electromotive force within a conductor which is exposed to time varying magnetic fields. Transformers are used to increase or decrease the alternating voltages in electric power applications.

Transformers are found throughout businesses, homes and public facilities in Saint Lucia. Large electric appliances such as washing machines and dishwashers use relatively high voltages of 110–240 volts, but electronic devices such as laptop computers and chargers for MP3 players and mobile cell phones use relatively lower voltages. Small electronic appliances have small transformers built into them, often mounted at the end of the power lead, to convert the 110–240 volt domestic supply into a smaller voltage they can use.

Because of wide usage, transformers have become an in-demand item within homes and businesses. There are frequent complaints about the general quality of transformers, more specifically the in terms of durability, electrical shock, fire hazards, damage to other electrical items and general safety and reliability.

The objective of Part 1 of IEC 61558 is to provide a set of requirements and tests considered to be generally applicable to most types of transformers, and which can be used as required by the users. Part 1 is thus not to be regarded as a specification by itself for any type of transformer, and its provisions apply only to particular types of transformers to the extent determined.

It is expected that this standard will be especially useful to importers, retailers, electricity producers, electrical technicians, regulatory and governmental agencies and the general consuming public.

Throughout the text of this standard where reference is made to “This International Standard” it shall be taken to mean “This National Standard” having been adopted as a Saint Lucia National Standard without deviation.

NOTICE

Given Copyright agreement with the International Electro-technical Commission (IEC) we are unable to circulate the full text of this standard for public voting and perusal via electronic distribution.

Only informative sections of the standards are publically available ONLINE. To access the full text/content of this standard please contact the Saint Lucia Bureau of Standards for more information to obtain a copy of the full text available to you for comment.

**Bisee Industrial Estate
P.O. Box CP 5412
Castries
Saint Lucia**
Telephone - 1758 453 0049 // 1758 456 0102 // 1758 456 0546
Fax: 1758 452 3561
Email: info@slbs.org ; slbs@candw.lc