

Test procedure for the measurement of energy consumption of set-top boxes (STBs)



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***Test procedure for the measurement of
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Preface

This is the second edition of CSA C380, *Test procedure for the measurement of energy consumption of set-top boxes (STBs)*. It supersedes the previous edition, published in 2008.

This Standard specifies the test method for measuring the energy consumption of set-top boxes, whose primary function is video reception and delivery. It maps IEC measurement values to the ENERGY STAR® program's set-top box requirements and provides localization guidance for the North American market. This Standard has been revised to advance harmonization with IEC 62087.

CSA acknowledges the Consumer Electronics Association and the International Electrotechnical Commission for the use of their documents in the development of this Standard.

CSA acknowledges that the development of this Standard was made possible, in part, by the financial support of Natural Resources Canada (NRCan), BC Hydro, Conserve Nova Scotia, Manitoba Hydro, and the Ontario Ministry of Energy.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

The Standard was prepared by the Subcommittee on Performance of Set-top Boxes and Digital Television Adapters, under the jurisdiction of the Technical Committee on Residential Equipment and the Strategic Steering Committee on Performance, Energy Efficiency, and Renewables, and has been formally approved by the Technical Committee.

August 2011

Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
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C380-11

Test procedure for the measurement of energy consumption of set-top boxes (STBs)

1 Scope

1.1

This Standard specifies the test method for measuring the energy consumption of set-top boxes (STBs), whose primary function is video reception and delivery.

1.2

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Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

ENERGY STAR

Technical Specifications for Set-top Boxes, Version 2.0

IEC (International Electrotechnical Commission)

60107-1:1997

Methods of measurement on receivers for television broadcast transmissions — Part 1: General considerations — Measurements at radio and video frequencies

62087:2008

Methods of measurement for the power consumption of audio, video and related equipment

62216:2009

Digital terrestrial television receivers for the DVB-T system

62301:2005

Household electrical appliances — Measurement of standby power