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American National Standard for Environmentally Concious Design for Electrical and Electronic Products

National Electrical Manufacturers Association



ANSI/IEC 62430-2010

American National Standard for Environmentally Conscious Design for Electrical and Electronic Products



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Environmentally Conscious Design for Electrical and Electronic Products

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FOREWORD FOR U.S. ADOPTION

This American National Standard is an adoption of IEC 62430 Ed.1 *Environmentally Conscious Design for Electrical and Electronic Products*. Any reference in this standard to an IEC 62430 part is understood to mean a reference to the equivalent ANSI/IEC 62430 part, where it exists.

This standard contains all the original text from IEC 62430 Ed.1 without change.

Suggestions for the improvement of this standard are welcome and should be submitted to:

Vice President, Technical Services
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This standard was processed and approved by committee of interested stakeholders as required by ANSI for adoption. In this particular situation, all committee members voted for its approval. At the time this standard was approved, the committee consisted of the following members:

Richard H. LaLumondier, Chair and Secretary

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ENVIRONMENTALLY CONSCIOUS DESIGN FOR ELECTRICAL AND ELECTRONIC PRODUCTS

FOREWORD

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International Standard IEC 62430 has been prepared by IEC technical committee 111: Environmental standardization for electrical and electronic products and systems.

The text of this standard is based on the following documents:

CDV	Report on voting
111/104/CDV	111/124/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

Every product has an effect on the environment, which may occur at any or all stages of its life cycle – raw-material acquisition, manufacture, distribution, use, maintenance, re-use and end of life. These effects may range from slight to significant; they may be short-term or long-term; and they may occur at the local, national, regional or global level (or a combination thereof).

The widespread use of electrical and electronic products has drawn increased awareness to their environmental impacts. As a result, legislation, as well as market-driven requirements for environmentally conscious design, are emerging.

The goal of environmentally conscious design is the reduction of adverse environmental impacts of a product throughout its entire life cycle. This can involve balancing the environmental aspects of the product with other factors, such as its intended use, performance, cost, marketability and quality, and choosing methods to meet legal and regulatory requirements in the most environmentally friendly way. In striving for this goal, multiple benefits can be achieved for the organization, its customers and other stakeholders. Environmentally conscious design is not a separate design activity; rather, it is an integral part of the existing design process. The "design" in this context includes the activities associated with the processes of product planning, development and decision-making as well as the creation of policies within the organization.

The impetus to create an International Standard was triggered by common circumstances impacting many industries in the global marketplace, since the compositional elements of a product (such as materials, components and services) are provided across national borders. The existence of an International Standard provides for a consistent approach to life cycle management.

This International Standard is intended for use by all those involved in the design and development of electrical and electronic products. This includes all parties in the supply chain regardless of organization type, size, location and complexity. It is applicable for all types of products, new as well as modified. Sector-specific documents may be developed to address needs not covered in this standard. The use of this standard as a base reference is encouraged so as to ensure consistency throughout the electrotechnical sector.

This International Standard provides a set of requirements for the process of environmentally conscious design reflecting the contents of IEC Guide 114 and ISO/TR 14062.