

**Lennunduse ja kosmonautika seeria. Lennuki  
elektrivarustuse tehnilised andmed**

Aerospace series - Characteristics of aircraft  
electrical supplies

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 2282:2000 sisaldab Euroopa standardi EN 2282:1992 ingliskeelset teksti.

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English version

Aerospace series  
Characteristics of aircraft  
electrical supplies

Série aérospatiale  
Caractéristiques de l'alimentation électrique  
des aéronefs

Luft- und Raumfahrt  
Eigenschaften der elektrischen  
Stromversorgung von Luftfahrzeugen

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## Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

According to the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard :

**Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.**

## 0 Introduction

This standard has taken into consideration national documents together with ISO 1540 and STANAG 3456.

## 1 Scope and field of application

This standard specifies the characteristics of electrical power supplied to the terminals of equipment installed in the aircraft.

It also defines the supply systems and compatibility requirements for equipment together with the special systems with constant and variable frequency.

This standard applies to a.c. and d.c. on-board or ground systems.

## 2 References

ISO 1540	Aerospace - Characteristics of aircraft electrical systems
ISO 7137	Aircraft - Environmental conditions and test procedures for airborne equipment
EN 3371	Aerospace series - Bonding <sup>1)</sup>
STANAG 3456	Aircraft electrical system characteristics <sup>2)</sup>
STANAG 3516	Electromagnetic compatibility for aircraft electrical and electronic equipment <sup>2)</sup>
MIL-STD-461	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference <sup>3)</sup> .

## 3 Definitions

### 3.1 Definition document

Standards or document giving the technical definition of equipment.

### 3.2 Electrical system (system)

An assembly constituted by the sources of electrical power, utilization equipment, safety devices and all common connections of the installation.

### 3.3 Power sources

They supply the power from one of the aircraft propulsion engines, a power conversion device, a ground support unit, or batteries.

### 3.4 Available power of a system

The power which can be used simultaneously under continuous steady-state conditions taking account of the specified conditions of use in the aircraft and the rated power of each power source.

### 3.5 Utilization equipment

Any equipment or any functional group of units consuming electrical energy.

1) In preparation at the date of publication of the present standard.

2) This standard is published by : NATO, Military Agency for Standardization (MAS), B-1110 BRUSSELS.

3) This specification is published by : Department of Defense (DOD), the Pentagon, WASHINGTON, D.C. 20301.