



SLOVENSKI STANDARD
SIST EN 2988:2001
01-januar-2001

Aerospace series - Nickel-cadmium batteries of format D type

Aerospace series - Nickel-cadmium batteries of format D type

Luft-und Raumfahrt - Nickel-Cadmium-Batterien - Bauart der Größenausführung D

Série aérospatiale - Batteries d'accumulateurs au nickel-cadmium du type de format D

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Ta slovenski standard je istoveten z: EN 2988:1996

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ICS:

49.060 Štejni sistemski napajalniki in oprema za letalstvo
Aerospace electric equipment and systems

SIST EN 2988:2001

en

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EUROPEAN STANDARD

EN 2988

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1996

ICS 49.060

Descriptors: aircraft industry, aircraft equipment, electric batteries, storage batteries, nickel cadmium batteries, specifications, dimensions

English version

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2
EN 2988 : 1996

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 received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 1997 and conflicting national standards shall be withdrawn at the latest by January 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 the United Kingdom.

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ALIN EN 2988:2001
TROUSSE TECHNIQUE OFFICIELLE DE TRAVAIL
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DITIGALNAR NOTEM OF TRAVEL



1 Scope

This standard specifies the characteristics of nickel-cadmium batteries of format D type.

NOTE : Format D type makes it possible to differentiate between the title of the present standard and those of the other product standards for nickel-cadmium batteries.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 2570 Aerospace series - Nickel-cadmium batteries - Technical specification

3 Characteristics

3.1 Dimensions

See figure 1.

Dimensions and tolerances are in millimetres.

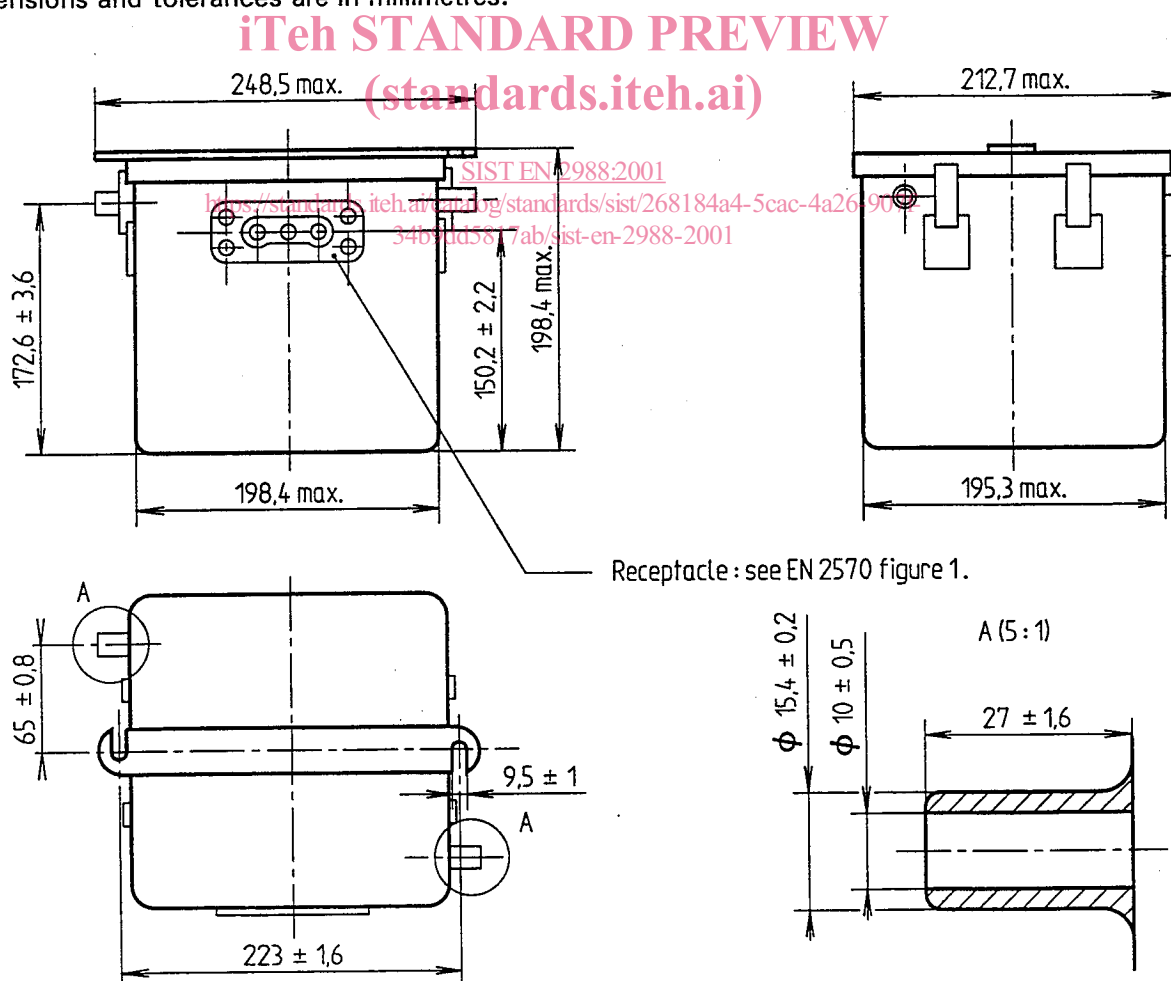


Figure 1

3.2 Physical characteristics

See table 1.

Table 1

Characteristics	Requirements
Mass (with accessories) Accessories 1)	16,5 kg max. -
Marking	See 5.
Acceleration	See EN 2570 (for crash no ignition).
Electrolyte spillage	See EN 2570.
Seal of lid 1)	See EN 2570.
Minimum air flow rate of ventilation	0,027 m ³ /min
Resistance to salt spray	See EN 2570.
1) Verify if required by the designation.	

3.3 Electrical characteristics

See table 2.

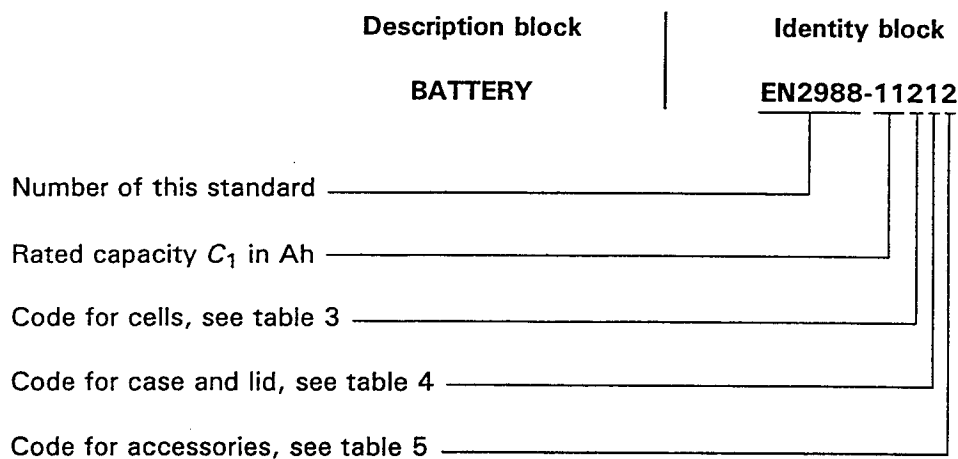
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Table 2

Characteristics	Test conditions	Requirements	
		Batteries	
		Normal	High power
Rated capacity C_1	-	11 Ah	11 Ah
Number of cells	-	According to code 1) 1 to 4	According to code 1) 5 to 7
Rated voltage		1,2 V per cell	
Available capacities	See EN 2570.	See EN 2570.	
Charge at - 18 °C	See EN 2570. 30 min 1 h 3 h	As % of C_1 Ah 4 to 6 8 to 12 15 to 20	
Charge recovered in 30 min	See EN 2570. 23 °C 50 °C	70 72	70 72
Prolonged charge at high temperature	See EN 2570.	See EN 2570.	
Starting capability	Temperature I at the 10th s I from the 11th to the 30th s U at the 15th s	5 C_1 A 14 V	10 C_1 A 14 V
Endurance	See EN 2570.	5 C_1 A	10 C_1 A
Short-circuit	See EN 2570.	I min. : 550 A U min. : 1,1 V	
1) See table 3.			
2) Value fixed by the manufacturer			

4 Designation

EXAMPLE :



NOTE : If necessary, the code I9005 shall be placed between the description block and the identity block.

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Table 3 (standards.iteh.ai)

Code	Cells		Electrolyte
	Number	Power	
1	20	Normal	Normal
2	19		Normal
3	20		Reserve
4	10		Normal
5	20	High	Normal
6	19		Normal
7	20		Reserve

Table 4

Code	Case and lid
1	Sealed lid
2	Code 1 + forced ventilation
3	Code 1 + aerobatic flights
4	Lid not sealed
5	Apertures in case and lid

Table 5

Code	Accessories
1	No accessories
2	With handles
3	With temperature sensor
4	With temperature sensor and handles

5 Marking

In addition to the identity block (see 4), each battery shall bear the following information :

- provisioning number (for military aircraft only);
- name of manufacturer;
- manufacturer's reference;
- country and location of manufacture;
- modification index where applicable;
- serial number;
- date of manufacture (month, year or code);
- safety instructions;
- polarity (see EN 2570);
- nominal voltage;
- rated capacity;
- number of cells.

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Unless otherwise indicated, the position of these markings is left to the manufacturer's discretion.
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6 Log book

It shall contain the information of 5, information required by EN 2570 and that concerning any special particulars.

7 Technical specification

EN 2570