

Specification for

General requirements for ground support electrical supplies for aircraft

[ISO title: Aircraft — Ground support electrical supplies —
General requirements]

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Committees responsible for this British Standard

This British Standard was published under the direction of the Aerospace Standards Committee ACE/-. Its preparation was entrusted to Technical Committee ACE/41 upon which the following bodies were represented:

- Civil Aviation Authority
- Electric Cable Makers' Confederation
- Electronic Components Industry Federation
- Electronic Engineering Association
- Society of British Aerospace Companies Limited

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Civil Aviation Authority (Airworthiness Division)
- Ministry of Defence

This British Standard, having been prepared under the direction of the Aerospace Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 June 1983

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard, having been prepared under the direction of the Aerospace Standards Committee, is identical with ISO 6858:1982 “*Aircraft — Ground support electrical supplies — General requirements*”, published by the International Organization for Standardization (ISO). It supersedes British Standard G 219:1975 which is withdrawn, and takes account of international agreement by Technical Committee ISO/TC 20 in relation to the requirements of ground electrical supplies for aircraft.

Requirements for electromagnetic interference, referred to in 5.3, are given in National appendix A.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear referring to this standard, they should be read as British Standard.

Cross-reference

International Standard	Corresponding British Standard
ISO 461:1965	British Standard 3G 173:1972 <i>Performance and interchangeability requirements for plugs and sockets for ground electrical supply to aircraft</i> (Technically equivalent)

The Technical Committee has reviewed the provisions of ISO 1540 to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

A related British Standard to ISO 1540:1977 is British Standard 3G 100 “*General requirements for equipment for use in aircraft*” — Part 3:1979 “*Characteristics of aircraft electrical power supplies*”.

In particular, attention is drawn to the following specific references:

ISO 1540:1977	British Standard 3G 100-3
Figure 2	Figure 2 (Technically equivalent)
Figure 3	Figure 3 (Technically equivalent)
clause 8.3	clause 8.2 (Identical)
Figure 7	Figure 7 (Technically equivalent)

References are made in 5.4.4 and 5.6.2 to Annex A and 8.2 of ISO 1540:1977 which have been reproduced in this standard as National appendix B and National appendix C respectively.

Additional information. National appendix A makes reference to British Standard 3G 100 “*General requirements for equipment for use in aircraft*” — Part 4 “*Electrical equipment*” Section 2 “*Electromagnetic interference at radio and audio frequencies*”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

