

Liquid crystal display devices —

Part 3: Liquid crystal display (LCD) cells — Sectional specification

The European Standard EN 61747-3:2006 has the status of a British Standard

ICS 31.120

National foreword

This British Standard was published by BSI. It is the UK implementation of EN 61747-3:2006. It is identical with IEC 61747-3:2006. It supersedes BS EN 61747-3:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/47, Semiconductors.

A list of organizations represented on EPL/47 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 29 December 2006

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ISBN 0 580 49819 0

Amendments issued since publication

Amd. No.	Date	Comments

English version

Liquid crystal display devices
Part 3: Liquid crystal display (LCD) cells -
Sectional specification
(IEC 61747-3:2006)

Dispositifs d'affichage à cristaux liquides
Partie 3: Cellules d'affichage
à cristaux liquides (LCD) -
Spécification intermédiaire
(CEI 61747-3:2006)

Flüssigkristall-Anzeige-Bauelemente
Teil 3: Flüssigkristall-Anzeigezellen
(LCD-Zellen) -
Rahmenspezifikation
(IEC 61747-3:2006)

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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 CENELEC member.

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CENELEC

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

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Ref. No. EN 61747-3:2006 E

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Foreword

The text of document 110/82/FDIS, future edition 2 of IEC 61747-3, prepared by IEC TC 110, Flat panel display devices was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61747-3 on 2006-09-01.

This European Standard supersedes EN 61747-3:1999.

The main changes with regard to EN 61747-3:1999 concern editorial updating in accordance with current ISO/IEC directives.

This part of EN 61747 is a sectional specification for liquid crystal display cells. It should be read together with the generic specification to which it refers.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2007-06-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2009-09-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61747-3:2006 was approved by CENELEC as a European Standard without any modification.

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LIQUID CRYSTAL DISPLAY DEVICES –

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1 Scope

This sectional specification applies to liquid crystal cells of the segment type monochrome . It gives details of the quality assessment procedures, the inspection requirements, screening sequences, sampling requirements and test and measurement procedures required for the assessment of liquid crystal display cells.

Instead of the qualification approval procedure, the capability approval procedure can be applied (see Clause 4 of IECQ 001002-3; however, at present the capability approval procedure for liquid crystal display cells is under consideration) for all products manufactured in a defined process.

All the requirements of this specification remain valid, unless modified by the requirements set out in 4.7 of this standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61747-1, *Liquid crystal and solid-state display devices – Part 1: Generic specification*

IEC 61747-5, *Liquid crystal and solid-state display devices – Part 5: Environmental, endurance and mechanical test methods*

IEC 61747-6, *Liquid crystal and solid-state display devices – Part 6: Measuring methods for liquid crystal modules – Transmissive type*

IECQ 001002-3:2005, *IEC Quality Assessment System for Electronic Components (IECQ) – Rules of Procedure – Part 3: Approval procedures*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

production line

an arrangement of process operations in production permitting sequential occurrence at various stages of production

EXAMPLES of processes:

- a) electrode patterning process;
- b) alignment treatment process;
- c) assembly process;