UL 60601-1

ISBN 0-7629-0848-3

Medical Electrical Equipment, Part 1: General Requirements for Safety



APRIL 26, 2006 – UL 60601-1 tr1

Underwriters Laboratories Inc. (UL) 333 Pfingsten Road Northbrook, IL 60062-2096

UL Standard for Safety for Medical Electrical Equipment, Part 1: General Requirements for Safety, UL 60601-1

First Edition, Dated April 25, 2003

Revisions: This Standard contains revisions through and including April 26, 2006.

Summary of Topics

These editorial revisions to UL 60601-1 replace all references to UL 1020, the Standard for Thermal Cutoffs for Use in Electrical Appliances and Components, with reference to UL 60691, the Standard for Thermal-Links – Requirements and Application Guide. UL 1020 was withdrawn and superseded by UL 60691.

Announcement Bulletin(s): This Standard contains the announcement bulletin(s) dated July 16, 1997, May 10, 1999 and June 16, 2000. The announcement bulletin is located at the end of the Standard (after the adoption bulletin(s)).

UL Standards for Safety are developed and maintained in the Standard Generalized Markup Language (SGML). SGML -- an international standard (ISO 8879-1986) -- is a descriptive markup language that describes a document's structure and purpose, rather than its physical appearance on a page. Due to formatting differences resulting from the use of UL's new electronic publishing system, please note that additional pages (on which no requirements have been changed) may be included in revision pages due to relocation of existing text and reformatting of the Standard.

Text that has been changed in any manner is marked with a vertical line in the margin. Changes in requirements are marked with a vertical line in the margin and are followed by an effective date note indicating the date of publication or the date on which the changed requirement becomes effective.

The revisions dated April 26, 2006 include a reprinted title page (page1) for this Standard.

The revisions dated April 26, 2006 editorially replace all references to UL 1020 with the reference to UL 60691.

The UL Foreword is no longer located within the UL Standard. For information concerning the use and application of the requirements contained in this Standard, the current version of the UL Foreword is located on ULStandardsInfoNet at: http://ulstandardsinfonet.ul.com/ulforeword.html

The master for this Standard at UL's Northbrook Office is the official document insofar as it relates to a UL service and the compliance of a product with respect to the requirements for that product and service, or if there are questions regarding the accuracy of this Standard.

UL's Standards for Safety are copyrighted by UL. Neither a printed copy of a Standard, nor the distribution diskette for a Standard-on-Diskette and the file for the Standard on the distribution diskette should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

tr2 APRIL 26, 2006 – UL 60601-1

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

Revisions of UL Standards for Safety are issued from time to time. A UL Standard for Safety is current only if it incorporates the most recently adopted revisions.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

UL will attempt to answer support requests concerning electronic versions of its Standards. However, this support service is offered on a reasonable efforts basis only, and UL may not be able to resolve every support request. UL supports the electronic versions of its Standards only if they are used under the conditions and operating systems for which it is intended. UL's support policies may change from time-to-time without notification.

UL reserves the right to change the format, presentation, file types and formats, delivery methods and formats, and the like of both its printed and electronic Standards without prior notice.

Purchasers of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgement (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

If a single-user version electronic Standard was purchased, one copy of this Standard may be stored on the hard disk of a single personal computer, or on a single LAN file-server or the permanent storage device of a multiple-user computer in such a manner that this Standard may only be accessed by one user at a time and for which there is no possibility of multiple concurrent access.

If a multiple-user version electronic Standard was purchased, one copy of the Standard may be stored on a single LAN file-server, or on the permanent storage device of a multiple-user computer, or on an Intranet server. The number of concurrent users shall not exceed the number of users authorized.

Electronic Standards are intended for on-line use, such as for viewing the requirements of a Standard, conducting a word search, and the like. Only one copy of the Standard may be printed from each single-user version of an electronic Standard. Only one copy of the Standard may be printed for each authorized user of a multiple-user version of an electronic Standard. Because of differences in the computer/software/printer setup used by UL and those of electronic Standards purchasers, the printed copy obtained by a purchaser may not look exactly like the on-line screen view or the printed Standard.

An employee of an organization purchasing a UL Standard can make a copy of the page or pages being viewed for their own fair and/or practical internal use.

The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the preface. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

APRIL 26, 2006 – UL 60601-1 tr3

New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Listing, Recognition, Classification and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

Copyright © 2006 Underwriters Laboratories Inc.

tr4 APRIL 26, 2006 – UL 60601-1

This Standard consists of pages dated as shown in the following checklist:

Page			Date
1.0	۸ سینا ۵	00	0000
1-3			
4-8			
12-13			
14			
15-16		,	
17		,	
18-19			
20-24B		,	
25		,	
26-42B		,	
43		,	
44		,	
45		,	
46-59			
60			
61			
62-64		,	
65		,	
66		,	
67-70		,	
71-75		,	
76		,	
77		,	
78-79		,	
80		,	
81			
82			
83			
84			
85-86B			
87-90	April 2	25,	2003
91-94	June 3	30,	2003
95-98	April 2	25,	2003
99-107	June 3	30,	2003
108-109	April 2	25,	2003
110	June 3	30,	2003
111-113	April 2	25,	2003
114-120B	June 3	30,	2003
121	April 2	25,	2003
122-126B	June 3	30,	2003
127	April 2	25,	2003
128-130			
131		-	
132-132B			
133-134		,	
135-141			
142			
	June 3	-	

148-149	April 25, 2003
150-152B	
153	
154-158B	•
159-206	April 25, 2000
207	June 30, 2003
208-266	April 25, 2003
267	June 30, 2003
268-269	April 25, 2003
270	April 26, 2006
271-282	April 25, 2003

tr6 APRIL 26, 2006 – UL 60601-1

No Text on This Page

This is a preview. Click here to purchase the full publication.

(Title Page Reprinted: April 26, 2006)

1

UL 60601-1

Medical Electrical Equipment, Part 1: General Requirements for Safety

Prior to the first edition of UL 60601-1, the requirements for the products covered by this Standard were included in UL 2601-1. This Standard replaces UL 2601-1.

First Edition

April 25, 2003

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

Revisions of this Standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

ISBN 0-7629-0848-3

COPYRIGHT © 1994, 2006 UNDERWRITERS LABORATORIES INC.

This is a preview. Click here to purchase the full publication.

No Text on This Page