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TÜV SÜD Taiwan - 7F., No.37, Sec. 2, Zhongyang S. Rd., Beitou District, Taipei City 112, Taiwan  
香港商樹德產品驗證顧問股份有限公司台灣分公司 - 11270 台北市北投區中央南路二段 37 號 7 樓

Date: August 1, 2012

## TÜV SÜD Taiwan Bulletin

### Subject: EN 60950-1標準更新通知

按照歐盟官方公報 (Official Journal) 發佈的訊息，若資訊類產品目前使用標準為：

EN 60950-1:2006 + A11:2009 或

EN 60950-1:2006 + A11: 2009 + A1:2010

需在2013-01-24之前將產品標準更新至目前最新版本EN 60950-1:2006 + A11: 2009 + A1:2010 + A12:2011，否則將視為無效證書 (標準)。

TÜV SÜD Taiwan 提醒您儘早更新證書標準以維持既有證書的有效性，同時我們也附上以下資訊供您參考：

- Annex 1: EN 60950-1各版本生效日及強制導入日期
- Annex 2: EN 60950-1/A1:2010 版本內容重點節錄
- Annex 3: EN 60950-1/A12:2011 版本內容重點節錄

針對標準更新若有任何問題，歡迎隨時與我們聯絡：

- 資訊產品部門\ Coordinator\ Ms. Amanda Chang\ ext. 318\ [amanda.chang@tuv-sud.tw](mailto:amanda.chang@tuv-sud.tw)
- 資訊產品部門\ Dept. Manager\ Mr. Watson Yang\ ext. 319\ [watson.yang@tuv-sud.tw](mailto:watson.yang@tuv-sud.tw)

## Annex 1: Transition Period for EN 60950-1

### ❖ Transition Period of EN 60950-1

Standard	DOR	DAV	DOA	DOP	DOW (for previous standard)
EN 60950-1: 2001 (第一版)	2001-12-04	2001-12-19	2002-06-01	2002-12-01	2006-07-01
EN 60950-1/ A11: 2004 (第一版)	2004-04-02	2004-04-21	2004-07-01	2004-10-01	Not specified
EN 60950-1: 2006 (第二版)	2005-12-01	2006-04-14	2006-12-01	2006-12-01	2010-12-01
EN 60950-1/ A11: 2009 (第二版)	2008-12-01	2009-03-06	2009-06-01	2009-12-01	2010-12-01
EN 60950-1/ A1: 2010 (第二版)	2010-03-01	2010-03-12	2010-09-01	2011-03-01	2013-03-01
EN 60950-1/ A12:2011 (第二版)	2011-01-24	2011-02-25	2011-07-24	2012-01-24	2013-01-24

### ❖ Note

- DOR (date of ratification)** = date the CENELEC Technical Board notes the approval of an EN or HD, from which time the standard may be said to be adopted.  
(核准日期：CENELEC 技術委員會核准此 EN 或 HD 通過的日期)
- DAV (date of availability)** = date when the definitive text in the official language versions of an approved EN or HD is distributed by the CENELEC Central Secretariat.  
(生效日期：CENELEC 中央秘書處發布以官方語言表示的 EN 或 HD 最終確定內容的日期)
- DOA (date of announcement)** = latest date by which the existence of an EN or HD has to be announced at national level by the CENELEC members.  
(宣佈日期：CENELEC 會員必須將此 EN 或 HD 宣布為國家標準的最後期限)
- DOP (date of publication)** = latest date by which an EN has to be implemented at national level by publication of an identical national standard or by endorsement.  
(發布日期：此 EN 必須已被發行為國家標準或是被簽署的方式導入至各國的最後期限)
- DOW (date of withdrawal)** = latest date by which national standards conflicting with an EN or HD have to be withdrawn.  
(撤銷日期：與此 EN 或是 HD 相抵觸的國家標準必須被撤銷的最後期限)

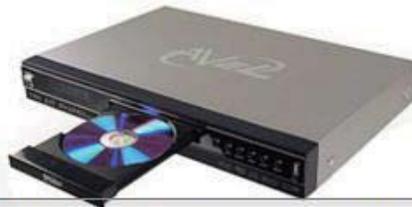
# Outlines and Highlights for Introducing New Standard IEC 60950-1/A1:2009



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**L.P.S. Protection IC**  
Clause 2.5, Annex CC



**VCD/DVD player or module**  
Clause 4.2.11



**LED for LED module**  
Clause 4.3.13.5.2



**Rack-mounted  
SERVER (slide rails)**  
Annex DD



**Projector**  
Clause 4.3.13.4



**Paper/Disc Shredder**  
Clause 1.2.13.18, 4.4.2,  
Annex EE



**DC Fan (user accessibility  
for PC, Server....)**  
Clause 4.4.1, 4.4.5

# Outlines and Highlights for Introducing New Standard IEC 60950-1/A1:2009



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Impact to general products			
Item.	Production \ Component	Relevant clause / Spirit of Content	Note.
1	Protection IC (providing for limit power output in L.P.S.)	<p>Clause 2.5 c) IC current limiter, limits the output in compliance with Table 2B under normal output and simulated single fault (open circuit or short circuit, <b>but not apply for input and output pin, IC current limiter meets a suitable test program as given in Annex CC</b>) in the regulating network.</p> <p>Annex CC (only need meet one of the test programs):</p> <p>CC.2 Test program 1 or CC.3 Test program 2</p>	<p>IC current limiters in SELV circuit, if not, please see Annex CC.1.</p> <p>Mfr.'s specified value of limited current shall not &gt; 5 A (for normal operating).</p> <p>Entirely electronic and have no means for manual operation or reset.</p>
2	Rack-mounted SERVER/PC/....	<p>Annex DD Requirements for the mounting means of rack-mounted equipment Apply downward Force for 1 min.</p> <p>1. Mounted horizontally (use slide rails): Force shall not less than the greater of below</p> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>150 % equipment mass + 330 N</b></p> <p><b>150 % equipment mass + (additional mass)</b> <b>(additional mass) = equipment mass or 530 N</b> <b>(whichever is less)</b></p> </div> <p>2. Mounted vertically (use slide rails): Force shall be 150 % of the equipment mass (min. force of 250 N but not more than 530 N)</p> <p>3. Supporting surface is intended to be a shelf: Force shall be 125% max. load (weight) of shelf according max. weight marking on shelf (such marking must be provided on shelf)</p> <p>4. Mechanical strength test: A 250 N static force is applied (in every direction except upward, most unfavourable position)</p> <p>5. Not allowing the slide rails to buckle, the means of attachment to break during and after test, or the equipment to slide past the end of the slide rails (DD.4 for details)</p>	<p>For mounting means of equipment having a <u>mass exceeding 7 kg</u> installed in a <u>rack that can be extended away</u> from the rack for installation.</p> <p>The requirement is unable to evaluate: If the mounting means is not evaluated with equipment as accessory and the User's manual is not specified the details of mounting means (construction, material, dimensions, screws ...) and installing way.</p>

# Outlines and Highlights for Introducing New Standard IEC 60950-1/A1:2009



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Item.	Production \ Component	Relevant clause / Spirit of Content	Note.
3	VCD/DVD/Disc player or module	<p>Clause 4.2.11 Rotating solid media Apply a force “F” by test pin (Figure 2B) on between the media door or tray assembly and the ENCLOSURE.</p> $F = S \times (mv^2) / R_0$ <p>(S = 0,250 for no deflector; S = 0,125 for deflector is used).</p> <p>The result shall not create a opening greater than “X” mm. (X is the smallest thickness in millimetres of the media specified by the Mfr.). <b>See Figure 4G.</b></p>	
4	Paper/Disc Shredder	<p>Clause 1.2.13.18, Clause 4.4.2, Annex EE Household and home/office document/media shredders</p> <ol style="list-style-type: none"> <li>1. An isolating switch complying with 3.4.2: Annex EE.4</li> <li>2. Markings and instructions should be provided adjacent to feed opening: Annex EE.2</li> <li>3. Isolation from HZARDOUS Moving part Test finger of Figure 2A: Annex EE.3 The wedge probe (illustrated in Figures EE.1 and EE.2): Annex EE.5</li> </ol> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Test finger (Figure 2A) / Wedge probe (Figure EE.1 and Figure EE.2, by force max. 45N or 90N)</p> <p>Access to Hazardous moving part through opening / feed opening</p> </div> <div style="width: 30%; border: 1px solid blue; background-color: #e6f2ff; padding: 5px;"> <p>Isolation by MECHANICAL ENCLOSURE / Hard isolation sheet (fixed in place and made by metal, hard plastic....)</p> </div> <div style="width: 20%; text-align: center;"> <p>✓</p> </div> <div style="width: 15%;">  </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <p>Test finger (Figure 2A) / Wedge probe (Figure EE.1 and Figure EE.2, by force max. 45N or 90N)</p> <p>Access to Hazardous moving part through opening / feed opening</p> </div> <div style="width: 30%; border: 1px solid orange; background-color: #fff9c4; padding: 5px;"> <p>Warning statement (or other similar isolation is not by mechanical construction )</p> </div> <div style="width: 20%; text-align: center;"> <p>✗</p> </div> <div style="width: 15%;"> <p>According to EE.2, relevant symbol shall be marked adjacent to the document/media feed opening</p> </div> </div> </div> <p>any MECHANICAL ENCLOSURES or guards that are removable without the use of a TOOL shall be removed.</p>	<p>SHREDDER must be PLUGGABLE EQUIPMENT TYPE A, or power supplied by battery.</p> <p>“ON” and “OFF” positions of a two-position switch (clause 1.7.8)</p> <p>The “OFF” position of the switch shall be marked in accordance with 1.7.8 for a multi-position switch. (other positions shall be marked with appropriate words or symbols)</p>

# Outlines and Highlights for Introducing New Standard IEC 60950-1/A1:2009



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Item.	Production \ Component	Relevant clause / Spirit of Content	Note.																				
5	DC Fan (user accessibility for PC, Server....)	<p>Clause 4.4.1, Clause 4.4.5</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr style="background-color: #008080; color: white;"> <th style="width: 30%;">Operating condition</th> <th style="width: 15%;">Normal</th> <th style="width: 15%;">Component single fault</th> <th style="width: 40%;">Comment</th> </tr> </thead> <tbody> <tr style="background-color: #008080; color: white;"> <th colspan="4">Allowed Fan Location</th> </tr> <tr> <td>Located in USER ACCESS AREA is allowed</td> <td>comply with a)</td> <td>comply with b)</td> <td></td> </tr> <tr> <td>Located in USER ACCESS AREA is not allowed but access when user serving is allowed</td> <td>comply with b)</td> <td>comply with b)</td> <td>A warning or symbol shall be provided</td> </tr> <tr> <td>Located in USER ACCESS AREA and access when user serving are both not allowed</td> <td>comply with c)</td> <td>comply with c)</td> <td>1) The means (mechanical construction) to against access when normal use and user serving shall be provided. 2) A warning or symbol shall be provided.</td> </tr> </tbody> </table> <p style="font-size: small;">Note: for a), b) and c), please refer to 4.4.5.1 for definition.</p> <p><b><u>During USER servicing conditions, where the equipment protection against access to a moving fan blade classified as 4.4.5.1 b) or 4.4.5.1 c) must be defeated or bypassed to perform the servicing, an instruction shall be provided to disconnect the power source prior to defeating or bypassing the equipment protection means, and to restore the equipment protection means before restoring power.</u></b></p>	Operating condition	Normal	Component single fault	Comment	Allowed Fan Location				Located in USER ACCESS AREA is allowed	comply with a)	comply with b)		Located in USER ACCESS AREA is not allowed but access when user serving is allowed	comply with b)	comply with b)	A warning or symbol shall be provided	Located in USER ACCESS AREA and access when user serving are both not allowed	comply with c)	comply with c)	1) The means (mechanical construction) to against access when normal use and user serving shall be provided. 2) A warning or symbol shall be provided.	<p>Note. (K factor) <math>K = 6 \times 10^{-7} (m r^2 N^2)</math></p> <p>a) a moving fan blade is not considered likely to cause pain or injury if <math>\frac{r/min}{15000} + \frac{K \text{ factor}}{2400} \leq 1</math></p> <p>b) a moving fan blade is considered likely to cause pain, but is not considered likely to cause injury if <math>\frac{r/min}{22000} + \frac{K \text{ factor}}{3600} \leq 1</math></p> <p>c) a moving fan blade that does not comply with a) or b) above is considered likely to cause injury.</p> <p>Annex B.1 DC fan (for air-handling motor in sec. circuit) is not required to pass the test of B.6 (Running overload test).</p>
Operating condition	Normal	Component single fault	Comment																				
Allowed Fan Location																							
Located in USER ACCESS AREA is allowed	comply with a)	comply with b)																					
Located in USER ACCESS AREA is not allowed but access when user serving is allowed	comply with b)	comply with b)	A warning or symbol shall be provided																				
Located in USER ACCESS AREA and access when user serving are both not allowed	comply with c)	comply with c)	1) The means (mechanical construction) to against access when normal use and user serving shall be provided. 2) A warning or symbol shall be provided.																				
Other significant clauses																							
Item.	Relevant clause / Spirit of Content	Relevant clause / Spirit of Content	Note.																				
1	4.3.13.4	4.3.13.4 Human exposure to ultraviolet (UV) radiation UV (from lamp) - spectrum from 180 nm to 400 nm and emits higher than 0,001 W/m <sup>2</sup> irradiance, is considered as "significant" radiation. Light is emitted only from Glass focusing lens having a 90 % UV attenuation up to 400 nm is considered not to emit excessive UV radiation.	NOTE 2 Glass with a thickness of 2 mm usually complies with this requirement.																				
2	4.3.13.5	4.3.13.5.1 Lasers (including laser diodes) Compliance is checked by inspection, by evaluation of the data provided by the manufacturer and if necessary, by testing according to IEC 60825-1.  4.3.13.5.2 Light emitting diodes (LEDs) Low power applications of LEDs need not comply with IEC 62471.	NOTE 1 Some examples of low power applications of LEDs that will normally comply are those used as: <ul style="list-style-type: none"> <li>- indicating lights;</li> <li>- infra-red devices such as are used in home entertainment devices;</li> <li>- infra-red devices for data transmission, such as are used between computers and computer peripherals;</li> <li>- optocouplers; and</li> <li>- other similar low power devices.</li> </ul>																				
3	6.2.2.1	6.2.2.1 Impulse test In Australia, a value of U <sub>c</sub> = 7,0 kV is used in 6.2.1 a) <b>only for hand-held telephones and for headsets.</b> (Not for all application of Figure 6B)																					

- 刪除舊條文針對攜帶式聲源系統(Portable Sound System)之定義及規定
- 新增章節 Zx, 主要針對攜帶式個人音樂播放機 (Personal Music Player)
  - 定義產品範圍 <sup>1)</sup>
  - 相關警語 <sup>2)</sup>
  - 聲響輸出限制值 <sup>3)</sup>

**Note:**

<sup>1)</sup> A personal music player is a portable equipment for personal use, that:

- is designed to allow the user to listen to recorded or broadcast sound or video; and
- primarily uses headphones or earphones that can be worn in or on or around the ears; and
- allows the user to walk around while in use.

NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.

<sup>2)</sup> The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:

- The symbol of Figure 1 with a minimum height of 5 mm; and



Figure 1 – Warning label (IEC 60417-6044)

- The following wording, or similar:

***To prevent possible hearing damage, do not listen at high volume levels for long periods.***

<sup>3)</sup> **Limitation**

**A. Equipment provided as a package (player with its listening device):**

The acoustic output shall be  $\leq 100$  dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1.

**B. A personal music player provided with an analogue electrical output socket for a listening device:**

The electrical output shall be  $\leq 150$  mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.

**C. Wired listening devices with analogue input (headphones/ earphones):**

With 94 dBA sound pressure output  $L_{Aeq,T}$ , the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be  $\geq 75$  mV.

**D. Wired listening devices with digital input (headphones/ earphones):**

With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output  $L_{Aeq,T}$  of the listening device shall be  $\leq 100$  dBA.

**E. Wireless listening devices:**

The acoustic output  $L_{Aeq,T}$  of the listening device shall be  $\leq 100$  dBA.