

## CTL DECISION SHEET

<b>Standard(s)- (incl. year)</b> IEC 60065:2001	<b>Sub-clause(s):</b> 7.1.1, Table 3, note b	<b>No.</b>	<b>Year</b>
		<b>DSH 0729</b>	<b>2008</b>
<b>Category:</b> TRON		<b>Developed by: ETF2</b>	
<b>Subject:</b> Temperature limit of main enclosure over heat sink	<b>Key words:</b> - Limits during normal operation - Not likely to be touched during intended use	<b>Decision approved at the 46th 2009 CTL Plenary Meeting</b>	

**Question:**

Can the 65 ° K temperature rise limit be applied for the surface of the main enclosure covering an internal heat sink in the same way as is applied for vacuum tubes following DSH-566?

**Decision:**

The 65 ° K rise limit may be applied to the enclosure covering an internal heatsink, if:

- the symbol (IEC60417, 5041) is marked on or adjacent to the heated area of the surface of the enclosure, and
- the minimum distance over the surface of the product between this area and any control intended to be operated during use is 150 mm or greater, and
- the instruction manual gives information regarding it.

**Explanatory Notes:**

For high-grade products, external heat sink or cooling fan is often used, but for low cost products, most heat sinks are placed inside the main enclosure. It is difficult to improve in the view of the cost of doing so. It seems impossible that the product with such construction can meet the limit of 40K for moderate/ 30K for tropical conditions.

Most users realize that the top cover of an audio amplifier is heated up. Even if a child intends to touch the heated area exceeding 70°C, the area radiates hot air, so the child can easily realize it is hot.

The issue was discussed in MT1 of TC108 and the committee agreed with the above decision. The addition of the marking and the wording was proposed by Mr. Woodgate. See the minutes of Berlin meeting, TC108/MT1(Convenor)56a, and of the Barcelona meeting, TC108/MT1(Convenor)60.

The last part of the second bullet paragraph was changed from "greater than 150mm" to "150mm or greater".

