CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 61347-1:2015	10.4	DSH 2120	2018
Category			
LITE			
Subject	**Keywords**	**Developed by**	**Approved at**
No-load output voltage	- SELV output - Exceedance of voltage under load - No-load output voltage	ETF5-OSM/LUM	2019 CTL Plenary Meeting

Question

What is the correct interpretation of the enumeration below the first paragraph of clause 10.4?

“10.4 Control gears providing SELV may have accessible conductive parts in the SELV circuit; if: the rated output voltage under load does not exceed 25 V r.m.s. or 60 V d.c. ripple free d.c. where the voltage exceeds 25 V r.m.s. or 60 V ripple free d.c., the touch current does not exceed:
– for a.c.: 0,7 mA (peak);
– for d.c.: 2,0 mA;
– the no-load output does not exceed 35 V peak or 60 V ripple free d.c.”

Is it correct that for accessible conductive parts, it is acceptable for voltage under load to exceed 60 V ripple free d.c., as long as the touch current is not exceeding 2,0 mA, and the no-load voltage is limited to 60 V ripple free d.c?

Decision

No, it is not correct. The voltage under load shall not exceed 60 V ripple-free d.c.

IEC SC 34C WG 1 has recognized that the present text of Clause 10.4 is unclear and will replace it with IEC 60598-1:2017, Clause 8.2.3 c) through an Amendment:

“SELV circuits may have exposed current carrying parts under the following conditions.
– the voltage under load does not exceed 25 V r.m.s. or 60 V ripple-free d.c. and
– the no-load voltage does not exceed 35 V peak or 60 V ripple-free d.c.
Where the voltage exceeds 25 V r.m.s. or 60 V d.c., the touch current does not exceed:
– for a.c.: 0,7 mA (peak);
– for d.c.: 2,0 mA.”

Explanatory notes
