

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
EN 61347-1:2015	10.4	DSH 2120A	2019
Category			
LITE			
Subject	Keywords	Developed by	Approved at
No-load output voltage	<ul style="list-style-type: none"> - SELV output - Exceedance of voltage under load - No-load output voltage 	OSM/LUM-ETF5	2019 ETICS Plenary Meeting
Question			
<p>What is the correct interpretation of the enumeration below the first paragraph of clause 10.4?</p> <p>“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:</p> <ul style="list-style-type: none"> – 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.” <p>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?</p>			
Decision			
<p>No, it is not correct. The voltage under load shall not exceed 60 V ripple-free d.c.</p> <p>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:</p> <p>“SELV circuits may have exposed current carrying parts under the following conditions.</p> <ul style="list-style-type: none"> – 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. <p>Where the voltage exceeds 25 V r.m.s. or 60 V d.c., the touch current does not exceed:</p> <ul style="list-style-type: none"> – for a.c.: 0,7 mA (peak); – for d.c.: 2,0 mA.” 			
Explanatory notes			
