



## OSM/EE DECISION SHEET

Category	Standard:	Clause	Document no.
ITAV	EN 62368-1:2014 + A11:2017 EN IEC 62368-1:2020 + A11:2020 EN IEC 62368-1:2024 + A11:2024	4.1.2 5.5.2 G.11	OSM-EE 22/2 rev 2
Subject		Key words	Meeting
Capacitor across the mains		X-capacitor, bridge rectifier	Online meeting 2022 Copenhagen 2023 Helsinki 2024
Question			
What are requirements for a capacitor within ES3 circuit connected to AC mains located after bridge rectifier?			
Decision			
Requirements of clause 5.5.2 do not apply for a capacitor which is connected after a rectifier in an ES3 circuit connected to AC mains of a switch mode power supply.			
Explanatory notes			
<p>It is considered that capacitor after bridge rectifier is not subjected to same transient levels as capacitor before bridge rectifier (directly L to N or L to L).</p> <p>Capacitors before bridge rectifier and connected L to N or L to L must comply with appropriate class of EN 60384-14 standard (see G.11).</p> <p>Replaces decision 91/8 rev. 2012 for EN 60950: 2000; EN 60950-1: 2001; EN 60950-1:2006+A1, +A11 +A12.</p> <p>IEC TC108 HBSDT San Francisco Nov 2022: Agreed, but changed the question as follows: What are requirements for a capacitor across within ES3 circuit connected to AC mains located after bridge rectifier?</p> <p>In Copenhagen 2023, OSM-EE decision 22/2 was modified with following changes: - IEC TC108 HBSDT San Francisco Nov 2022 agreed, but changed the question from "What are requirements for a capacitor across ES3 circuit connected to AC mains located after bridge rectifier?" to "What are requirements for a capacitor within ES3 circuit connected to AC mains located after bridge rectifier?"</p> <p>In Helsinki 2024, OSM-EE decision 22/2 rev 1 was modified with following changes: - add 4th edition of EN IEC 62368-1</p>			