



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	6.4.8 B.1.5 B 1.6	OSM-EE 25/2
Subject		Key words	Meeting
Flush-mounted USB chargers		Operating temperature measurements, Fire enclosure	Strasbourg 9-10 April 2025
Question			
a) How shall the temperature measurements of flush-mounted USB chargers that are intended to be mounted inside electrical accessory box be performed? b) What are the requirements for a fire enclosure, if any, when using the control fire spread method, as these are for building-in?			
Decision			
If a USB outlet or similar device is to be assessed to EN IEC 62368-1: a) Temperature rise measurements shall be made according to EN IEC 62368-1 using the test assembly for flush-mounted accessories as described in clause 19 of IEC 60884-1:2022 b) The enclosure shall meet the requirements of Clause 6 of EN IEC 62368-1. Protection from fire cannot rely on the electrical accessory box.			

Explanatory notes

Note that this product is not within the scope of IEC 60884-3-1:2021

The justification for testing in electrical accessory box comes from following standard clauses.

EN 62368-1:2014/A11:2017 clause 5.4.1.4.2 Test method,

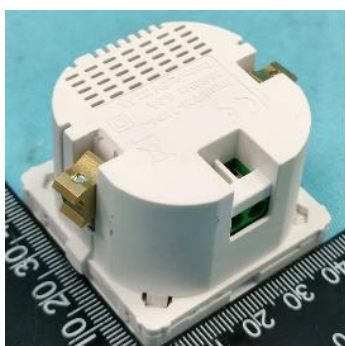
EN IEC 62368-1:2020/A11:2020 clause 5.4.1.4.2 Test method,

EN IEC 62368-1:2024/A11:2024 clause B.2.6.4 Equipment intended for building-in or rack-mounting

“Equipment intended for building-in or rack-mounting, or for incorporation in larger equipment, is tested under the most adverse actual or simulated conditions specified in the installation instructions.”

NOTE Electrical accessory box tested according to EN IEC 60670-1:2021/A11:2021 that do not retain current-carrying parts in position comply with glow-wire test made at 650 °C.

Examples for flush mount USB chargers:



Examples for electrical accessory boxes:

