

PD Signature requirements v130

Info (not part of baseline)

While we have a “Connection check” section for the PSE, there are currently no requirements or guidelines on what a PD must do to be categorized as a single-, or dual-signature PD. Considering that a miscategorization will almost surely lead to non-operation, these requirements need to be added.

Insert new section 33.3.5, after 33.3.4 “PD valid and non-valid detection signatures” as follows:

33.3.5 PD Signature

A Type 3 or Type 4 dual-signature PD shall present a valid detection signature, as defined in Table 33–21, on:

- Mode A regardless of any voltage applied to Mode B between 0V and 57V, and
- Mode B regardless of any voltage applied to Mode A between 0V and 57V.

A single-signature PD shall present a valid detection signature on Mode A, when no voltage or current is applied to Mode B, and shall present an invalid detection signature on Mode A, when any voltage between 10.1V and 57V is applied to Mode B.