

Baseline Comment Bucket

Contributors: MLandry, et. al.

Agenda

- Patent Policy
 - http://standards.ieee.org/board/pat/pat-slideset.pdf
- Comments



Comment Bucket Buckets

- Easy stuff
 - > Comments 15, 12, 141
- Detection stuff
 - > Comments 124, 13



Easy Comment 15

CI 33 SC 4.2 P 67 # 15 L 1 LANDRY, MATTHEW SILICON LABS Comment Type Comment Status A baseline The IEC 60060 does not have a year associated with it. SuggestedRemedy Please clarify the exact year of issue. Response Response Status C ACCEPT IN PRINCIPLE. Editor to find year or seek help finding correct year.

Reference in question:

Each wire pair shall withstand, without damage, a 1000V common-mode impulse applied at Ecm of either polarity (as indicated in Figure 33–13). The shape of the impulse shall be $(0.3/50) \,\mu s$ (300 ns virtual front time, 50 μs virtual time or half value), as defined in IEC 60060, where Ecm is an externally applied AC voltage as shown in Figure 33–13.

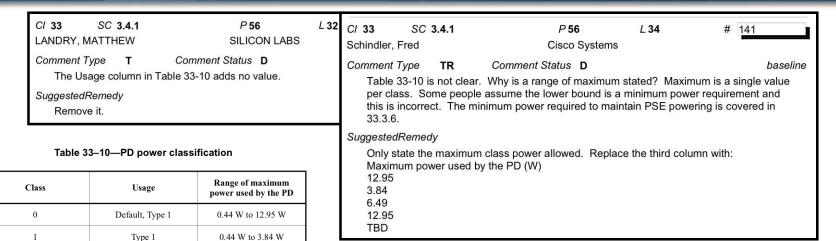
Any input?



Easy Comment 12, 141

3.84 W to 6.49 W

6.49 W_{to} 12.95 W



- "Usage" column of similar Table 33-3 was removed with D0.9/#163
- "Range of maximum power" phraseology, while technically accurate, is definitely confusing to the average reader
- Besides, is there any reason a 2W PD could not advertise itself as Class 2?
- Accept both remedies

Type 1

Type 1

Type 2



Detection Comment 124

CI 33 SC 2.5.1 P33 L 51 # 124 Schindler, Fred Cisco Systems Comment Type Comment Status D The existing section on PD detection requires specific design requirements that are not necessary to ensure interoperability. Other detection methods have been disclosed: http://www.ieee802.org/3/poep_study/public/sep05/naegeli_1_0905.pdf The IEEE specification should ensure requirements for interoperability are in place. This comment also affects text in section 33.3.3, p54, L18. SuggestedRemedy Reference the PD model shown in figure 33-10, and require that the PSE detect values of Rpd d for all permissible values of Cpd d as specified in table 33-2. Remove the text requiring two values but continue to provide guidance for designs that use the two probe method. Proposed Response Response Status O

Discussion needed



Detection Comment 13

CI 33 SC 2.5 P33 L 5 LANDRY, MATTHEW SILICON LABS Comment Type TR Comment Status D baseline A PSE performing detection should be able to provide two characteristics. (1) Probing into a short circuit won't destroy the PSE or the source of the short. (2) Two PSEs probing the same link segment should not result in a 25kohm differential impedance. The probing voltage (Vvalid and Voc) and short circuit current limit defined in Table 33-2 accomplish (1). A simple shall statement can accomplish (2). Instead we have some schematics (Figs 33-8 and 33-9) and a normative statement requiring conformance to them. This sure sounds like mandating an implementation -- and unnecessarily at that. SuggestedRemedy Strike Figs 33-8 and 33-9 or add a NOTE mentioning that they are informative only. Strike Thevenin shall statement on line 45. Add the following shall: A PSE shall present a non-valid signature as defined in Table 33-9 in all detection states. Note that current PSEs conforming to the Thevenin circuits currently mandated will still satisfy this new shall. Proposed Response Response Status O

Discussion needed

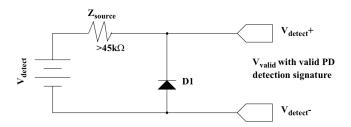


Figure 33-8-PSE detection source

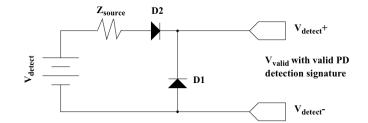


Figure 33-9—Alternative PSE detection source

The PSE shall exhibit Thevenin equivalence to one of the detection circuits shown in Figure 33–8 or Figure 33–9 in all detection states.

