## **Comment**

Is it correct to use Icon-2p\_unb\_MIN=Icon for Type 3 and 4 operating class 0-4 PDs? The reason for this question is that it could be per the current spec that the Icon-2P\_unb min for class 4 will be greater than Class 5 which may raise confusion and the following analysis meant to explain why it happens for the record and suggest text for clarity.

## Analysis:

a) When Type 3 or 4 connected to class 0-4 PDs working over 2P or 4P we may have the following behaviors:

-If working over 2-pairs than Icon-2P\_unb\_min=Icon=Pclass/Vport = 0.6A for class 4 as an example.

-If working over 4-pairs, the worst case unbalance will cause the current to be only 365mA on the pair with maximum current however per the current spec 0.6A will be the value for this case too ending with situation that class 4 Icon-2P\_unb current is greater than class 5.

But due to the fact that there are no unbalance requirements for class 0-4 operating over 4pairs, we have no choice but to use for 2P and 4P operation with class 0-4 PD the same "Icon-2P\_unb" min value which is Icon and we need to clarify this in the spec.

PSE Additional Symbol Item Parameter Unit Min Max Type information 4 Continuous total out-See 33.2.7.4. ICon A PClass / 1.2 put current capability All VPort\_PSE-2P in POWER ON state Pairset current including unbalance effect 4a

ICon

0.550

0.682

0.777

0.925

0.400

Icon<sup>3</sup>

See 33.2.7.4 and

See 33.2.7.5. Max value-

defined by Figure 33-13.

33.2.7.4.1.

3.4

3.4

3.4

4

4

All

Sec.

info

The same discussion is apply to ILIM-2P in table 33-11 item 9 which is discussed in separate comment.

## Suggested Remedy

5

Class 0-4

Class 5

Class 6

Class 7

Class 8

Outout current in

POWER UP state

1. Change Icon to Icon<sup>3</sup> in Table 33-11 item 4a Icon-2P\_unb minimum value.

A

А

2. Add note 3 at the end of table 33-11 with the following text:

ICon-2P-

Harnsh

unb

<sup>43</sup> Unbalance at Class 4 is not restricted, its Icon-2P\_unb value is higher than the value for Class 5."