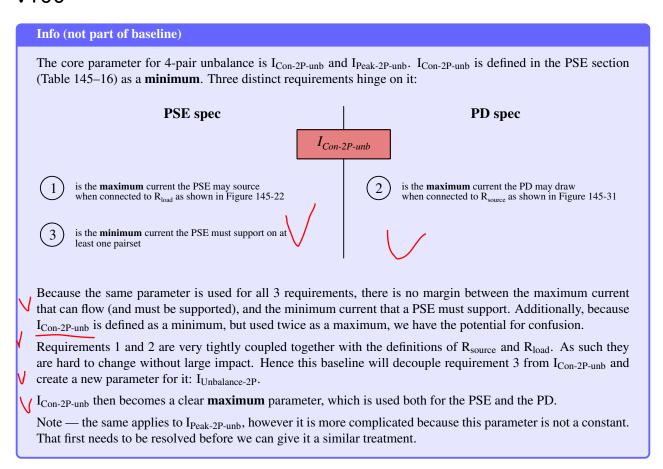
P802.3bt D3.0 – Creating margin in the unbalance specification v100



145.2.8 Power supply output

Change Table 145–16 as follows:

Item	Parameter	Symbol	Unit	Min	Max	PSE Type	Additional information
5	J Pairset current includin	ig unbalance c	ffeet per th	e assigned Cl	lass, when po	wering sin	gle-signature PDs
	hairset current for PSE	and PD due to	o unbalanc	e per the assig	gned Class (fo	or single-si	gnature PDs) V
	Class 1 to 4	I _{Con-2P-unb}	A	I _{Con} a	I _{Con} ^a	3,4	See 145.2.8.5, and 145.2.8.5.1 , and 145.3.8.10.
	Class 5			0.55	0.55	3,4	
	Class 6			0.682	0.682	3,4	
	Class 7			0.781	0.781	4	
	Class 8			0.932	0.932	4	

Insert new item into Table 145–16, after item 5, as follows:

Item	Parameter	Symbol	Unit	Min	Max	PSE Type	Additional information			
5a	Supported pairset current including unbalance effect per the assigned Class (for single-signature PDs)									
	Class 1 to 4	I _{Con-2P-unb}	A	I _{Con} a pa	on is a total 4- ir current. You ed something	3,4	See 145.2.8.5 and 145.2.8.5.1.			
	Class 5			0.6 wit	th "-2P"	3,4				
	Class 6	Same		7		3,4				
	Class 7	name?		0.8		4				
	Class 8		/	0.95		4				

I guess the intent of this work is not to increase the effective Icon-2P unb in 'ilegale way since it could cause issues with transformers that we want to use for Type 3 (same that we use for Type 2). What you have to do in order to get what you declare above as the objective is to specify: Icon=Icon-2P_unb+0.002 the same concept that I did for ILIM-2P and Ipeak-2P_unb SO YOU WILL GET YOUR

clear definition. If you need margin for Icon-2P_unb, refer to darshan_03_0917.pdf which tell what we can do.

145.2.8.5 Continuous output current capability in the POWER_ON state

PSEs shall be able to source I_{Con-2P} , the current the PSE supports on each powered pairset, as defined in Equation (145–8).

Replace Equation 145-8 as follows (changes highlighted in red):

$$I_{Con\text{-}2P} = \left\{ \begin{array}{l} P_{Class}/V_{PSE} \\ P_{Class\text{-}2P}/V_{PSE} \\ P_{Class\text{-}2P}/V_{PSE} \\ \end{array} \right. \text{ when in 2-pair mode} \\ \text{when 4-pair powering a single-signature PD} \\ \text{when 4-pair powering a dual-signature PD} \\ \text{A} \end{array} \right.$$

where

Interpolation In Table 145–16

Is the current a PSE is able to source on a pairset due to unbalance as defined in Table 145–16

When powering a single-signature PD over 4 pairs, a PSE supports:

- A total current of I_{Con} defined in Equation (145–9), over both pairs with the same polarity;
- A minimum current of I_{Con-2P-unb} I_{Unbalance-2P} over one of the pairs of the same polarity under maximum unbalance condition (see 145.2.8.5.1) in the POWER_ON state.