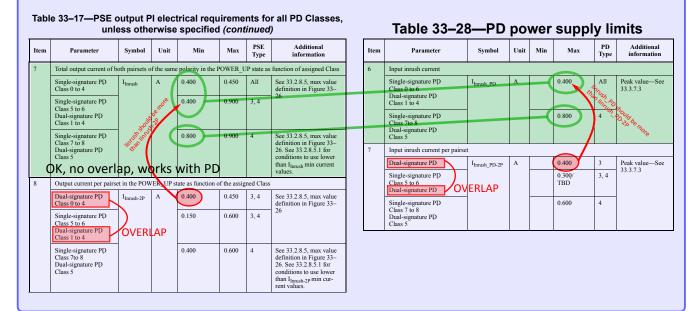
PSE Inrush for D1.6 v101

Info (not part of baseline)

When implementing the inrush baseline for D1.6, the comment instruction said to remove all distinction between dual-signature with same or different class. This has caused part of the disconnect between total and pairset currents as well as between the PSE and the PD specification. The total inrush currents I_{Inrush} and I_{Inrush_PD} seem to be OK and compatible with each other. These have been taken as leading.

Trouble illustrated:



Merge the additional information fields for Table 33–17, Item 7 as follows:

Item	Parameter	Symbol	Unit	Min	Max	PSE Type	Additional information
7	Total output current of	both pairsets of	the same p	olarity in th	e POWER_U	JP state as f	function of assigned Class
	Single-signature PD, Class 0 to 4	I _{Inrush}	A	0.400	0.450	All	See 33.2.8.5, 33.2.8.5.1, max value definition in Figure 33–26.
	Single-signature PD, Class 5 to 6 Dual-signature PD, Class 1 to 4			0.400	0.900	3, 4	
	Single-signature PD, Class 7 to 8 Dual-signature PD, Class 5			0.800	0.900	3, 4	See 33.2.8.5, max value definition in Figure 33–26. See 33.2.8.5.1 for conditions to use lower than I _{Inrush} min current values.

Info (not part of baseline)

Based on these total I_{Inrush} currents, there is an impossibility in item 8 for $I_{Inrush-2P}$, as well as overlap in the dual-signature specification. The first row of $I_{Inrush-2P}$ is impossible given a total I_{Inrush} of 400mA for dual-signature PD Class 1 to 4.

Adopted inrush text: →darshan_02_0116_Rev 011j.pdf Given I_{Inrush}, the following would be the I_{Inrush-2P} values:

Modify Table 33–17, item 8 as follows:

Item	Parameter	Symbol	Unit	Min	Max	PSE Type	Additional information
8	Output current per pair	set in the POW	ER_UP state	e as function	of the assig	gned Class	
	Dual-signature PD, Class 0 to 4	I _{Inrush-2P}	A	0.400	0.450	3, 4	See 33.2.8.5, 33.2.8.5.1, max value definition in Figure 33–26.
	Single-signature PD, Class 5 to 6 Dual-signature PD, Class 1 to 4			0.150	0.600	3, 4	
	Single-signature PD, Class 7 to 8 Dual-signature PD, Class 5			0.400	0.600	3, 4	See 33.2.8.5, max value definition in Figure 33–26. See 33.2.8.5.1 for conditions to use lower than I _{Inrush-2P} min current values.