Date: May 1, 2006.

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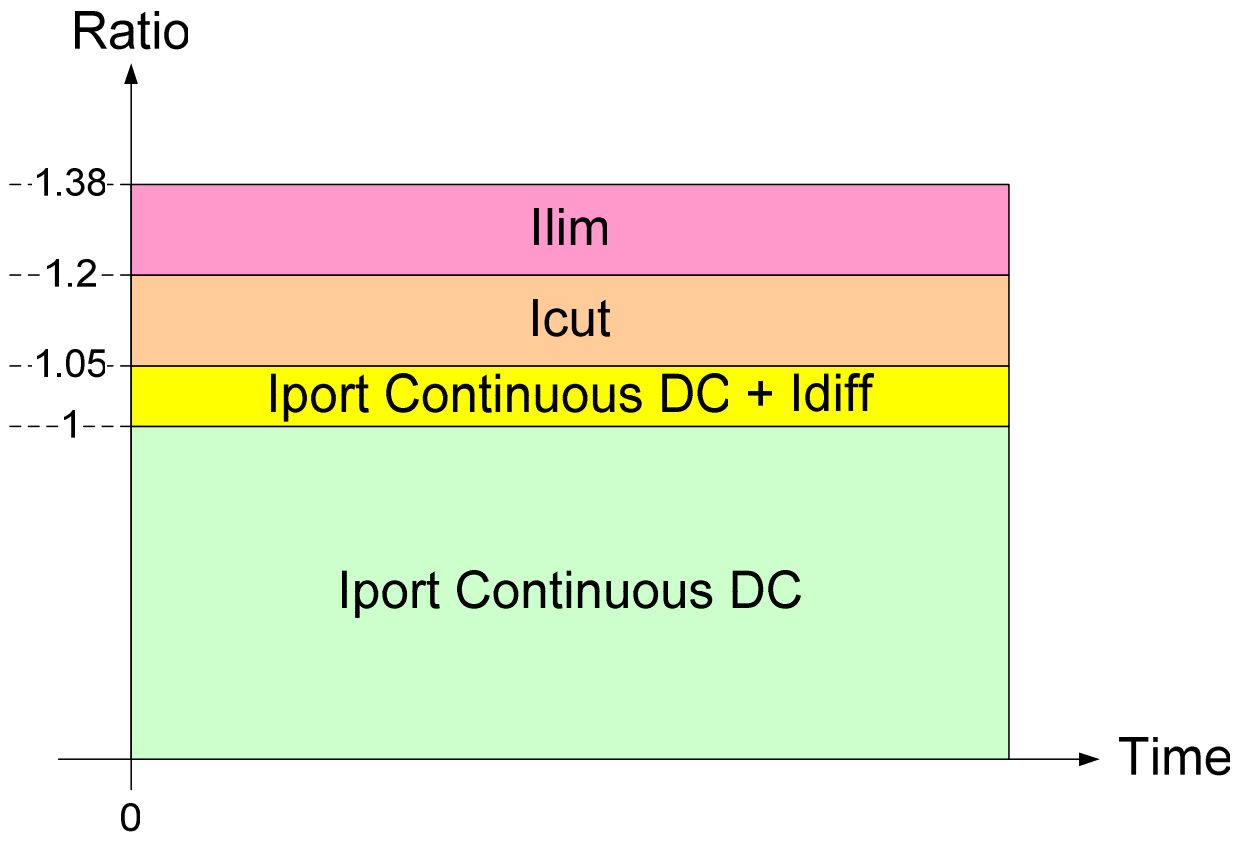
Classification Ad-Hoc, IEEE802.3 Task Force.

Suggested additional requirements for supporting 2P/4P PDs

(Numbers are based on 30W at the PD for each 2P.)

Draft

I_{CUT}/I_{DC}, I_{LIM}/I_{CUT} ratio, I_{DIFF}



Item	Parameter	Symbol	Unit	Min	Max	Additional Information
0	Output Current, continuous	Iport_max	mADC		790mA	Based on 30W at PD for Vpse=51V generating 720mA + Idiff_max=70mA PD max current over 2P is 720mA.
1	Overload current Range	I_{CUT}	mA		TBD	
2	Current limit range	I_{LIM}	mA		TBD	
1	Current difference between each twp pairs on negative PI leads for Iport≥720mA.	Idiff_n	%		TBD	
2	Current difference between each twp pairs on positive PI leads for Iport≥720mA.	Idiff_p	%		TBD	
3	Channel maximum unbalanced current in 4P configuration, without current sharing for testing purposes and modeling.	Idiff_max	%		TBD	Under investigation
4	Max voltage difference generated by Runbalance x(721mA+Iunbalanced-max) Without current sharing operation	Vdiff1	V		TBD	Under investigation
5	Max PSE inter pairs voltage differences within the same port, box and gnd.	Vdiff1	V		TBD	Under investigation

PowerDsine™

Classification Table - Example

Class code #	PD type	2P MP	4P HP	PD Power[W]	Notes
0	802.3af	802.3at 2P		0.44 – 12.95	
1	802.3af	802.3at 2P		3.84	
2	802.3af	802.3at 2P		6.49	
3	802.3af	802.3at 2P		12.95	
4		802.3at 2P		2	
5		802.3at 2P		9	
6		802.3at 2P		15	
7		802.3at 2P		20	
8		802.3at 2P		25	
9		802.3at 2P		30	
10		802.3at 2P		Reserved	
11		802.3at 2P		Reserved	
12		802.3at 2P	802.3at 4P	20	Do we want to support overlap for increased efficiency?
13		802.3at 2P	802.3at 4P	25	
14			802.3at 4P	30	
15			802.3at 4P	35	
16			802.3at 4P	40	
17			802.3at 4P	45	
18			802.3at 4P	50	
19			802.3at 4P	60	
20			802.3at 4P	Reserved	