Overcurrent				
Preparation	connect electronic load Connect DSO (CH1> IN [TP11], CH2> Pump + [TP34], CH3> OUT [TP13], CH4> Current IN)			
turn on Power supply	Set power supply 12V @ 10A	no unexpected behaviour ok		
		no scope	35 A TELEDVINE LEGS	POV CIII INI 101//dia 201/ effect
turn on load		Current (CH4) rises to 1.5A IN (CH1), Pump + (CH2) and OUT (CH3) no unexpected behaviour	25 A Pump = 20 A OUT 15 A Current IN	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 500mA, Positive Edge Tbase: 200ms/div, -800ms offset
set load 6A, wait 0.5s, set load 1.5A	use CR	Current (CH4) rises to 6A for 0.5s then falls ok back to 1.5A IN (CH1), Pump + (CH2) and OUT (CH3) no unexpected behaviour	25 A Pump + 20 A OUT 15 A 10 V Current IN 5 A -200 ms 0 fts 200 ms 400 ms 600 ms 800 ms 1s 12s 1.4s 1.6s	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 200ms/div, -800ms offset
set load 6A, wait 1.5s, set load 1.5A	use CR	Current (CH4) rises to 6A for 1s then drops ok to 0A, 1s after turn off> retry to 1.5A Pump + (CH2) turns off (0V) after 1s, 1s later turns back on (12V) IN (CH1) and OUT (CH3) no unexpected behaviour	25 A Pump + 20 A OUT 15 A Current IN 5 A Current IN 5 A -500 ms 0 fts 500 ms 1s 15 s 2 s 2.5 s 3 s 3.5 s 4 s	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 500ms/div, -2s offset
set load 6A, wait 4.5s, set load 1.5A	use CR	Current (CH4) rises to 6A for 1s then drops to 0A for 1s, at 6A for 1s (retry 1), at 0A for 1s, at 6A for 0.5s (retry 2) then at 1.5A Pump + (CH2) turns off (0V) after 1s, 4s later turns back on (12V) IN (CH1) and OUT (CH3) no unexpected behaviour	25 A Pump ± 20 A OUT 15 A Current IN 5 A Current IN 5 A Survey of the state of the	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 1s/div, -4s offset

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set load 6A, wait 5.5s, set load		Current (CH4) rises to 6A for 1s then drops		TELEDYNE LECROY EVErywhereyoulook CH1 - IN, 10V/div, 20V offset
1.5A		to 0A for 1s, at 6A for 1s (retry 1), at 0A for		CH2 - Pump +, 10V/div, -50mV
		1s, at 6A for 1s (retry 2),, at 0A for 1s then		Pump + Offset
		at 1.5A		CH3 - OUT, 10V/div, -10V offset
		Pump + (CH2) turns off (0V) after 1s and		CH4 - Current IN, 5A/div, -15A
		stays off		offset
		IN (CH1) and OUT (CH3) no unexpected		5A
		behaviour		Trigger: CH4, 3.5A, Positive Edge
				-1s 0 ms 1s 2s 3s 4s 5s 6s 7s 8s 9s
				C1
turn off load		00.0000		
		no scope		
turn off Power supply		no scope		
	Exploring special case (Independet fail logic)			
		Same as above but with 4 retries with the		TELEDYNE LECROY Everywhereyoulook CH1 - IN, 10V/div, 20V offset
		4th successful		CH2 - Pump +, 10V/div, -50mV
		401 3000033101		offset
				CH3 - OUT, 10V/div, -10V offset
				CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A
				CH4 - Current IN, 5A/OIV, -15A offset
				5 A Current IN Current
				Complete to the control of the contr
				Trigger: CH4, 3.5A, Positive Edge
				C1
				C1
			retries for 4 times with 1s overcurrent with each	
		Same as above but with 4 retries with all	retry	TELEDYNE LECROY Everywhereyoulook CH1 - IN, 10V/div, 20V offset
		failing		CH2 - Pump +, 10V/div, -50mV
				Pump + Offset
				CH3 - OUT, 10V/div, -10V offset
				CH4 - Current IN, 5A/div, -15A
				Current IN Offset
				Trigger: CH4, 3.5A, Positive Edge
				-2s 0 ms 2s 4s 6s 8s 10s 12s 14s 16s 18s
				C1
		No overested executed by		35A
		No expected results because just testing	5s OC, 8.5s pause	TELEDYNE LECROY Everywhereyoulook CH1 - IN, 10V/div, 20V offset
		what happens with different Overcurrent		CH2 - Pump +, 10V/div, -50mV
		and pause times		offset offset
				CH3 - OUT, 10V/div, -10V offset
				CH4 - Current IN, 5A/div, -15A
				Current IN Offset
				Trigger: CH4, 3.5A, Positive Edge
				-5s 0s 5s 10s 15s 20s 25s 30s 35s 40s 45s
				C1
B		1		

	No expected results because just testing what happens with different Overcurrent and pause times	8.5s OC, 5s pause	25 A Pump + 20 A 10 Pump + 5 A Current IN 5 A -5 A -5 S 5 S 10 S 15 S 20 S 25 S 30 S 35 S	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 20.0 s Irigger 200 2.5 Ms 50 kS/s Edge Positive Toase: 5s/div, -20s offset
	No expected results because just testing what happens with different Overcurrent and pause times	8.5s OC, 6s pause	25 A Pump+ 20 A OUT 10% 5 A Current IN 5 A -5 A -5 S 5 S 10 S 15 S 20 S 25 S 30 S 35 S	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 20.0 s Trigger 200 25 MS 500 s/fs Edge Positive Tbase: 5s/div, -20s offset
	No expected results because just testing what happens with different Overcurrent and pause times	8.5s OC, 7s pause	25 A OUT 1004 Current IN 5A -5A -5s	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 5s/div, -20s offset
	No expected results because just testing what happens with different Overcurrent and pause times	8.5s OC, 8s pause	30 A 25 A Pump+ 20 A 10 A 10 A Current IN 5 A -5 A -5 S 5 S 10 S 15 S 20 S 25 S 30 S 35 S	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 500 s/dry Stop 330 A 2.5 MS 500 kS/d Edge Positive Tbase: 5s/div, -20s offset
	No expected results because just testing what happens with different Overcurrent and pause times	8.5s OC, 9s pause	25 A Pump + 20 A 10 A Current IN 5 A -5 A -5 S 5 S 10 S 15 S 20 S 25 S 30 S 35 S	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 20.0 s Iffrager 25 00 s 5.00 s/dv Stop 3.50 A 25.MS 50 kS/s Edge Positive Tbase: 5s/div, -20s offset

No expected results because just testing what happens with different Overcurrent and pause times 8.5s OC, 10s pause	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 5s/div, -20s offset
No expected results because just testing what happens with different Overcurrent and pause times 5s OC, 30s pause	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 5s/div, -20s offset
No expected results because just testing what happens with different Overcurrent and pause times 7s OC, 30s pause	CH1 - IN, 10V/div, 20V offset CH2 - Pump +, 10V/div, -50mV offset CH3 - OUT, 10V/div, -10V offset CH4 - Current IN, 5A/div, -15A offset Trigger: CH4, 3.5A, Positive Edge Tbase: 5s/div, -20s offset