Measurements using KEL103 with 2-wires and 4-wires methods - 2022/07/18

Target Current (A)	Input		Output		
	Courant (A)	Tension (V)	Courant (A)	Tension Front (V)	Tension Back/Com (V)
10	4,354	30	9,999	11,59	11,73
9	3,709	30	8,999	11,905	12,033
8	3,299	30	7,999	11,92	12,034
7	2,892	30	6,999	11,933	12,034
6	2,484	30	5,999	11,947	12,034
5	2,076	30	4,999	11,961	12,034
4	1,67	30	3,999	11,976	12,034
3	1,252	30	2,999	11,991	12,034
2	0,838	30	1,999	12,006	12,035
1	0,432	30	0,999	12,02	12,035

Performance of DC2726A

Target Current (A)	Pin (W)	Front		Back/Com		Relative Deviation
		Pout (W)	Perf. (%)	Pout (W)	Perf. (%)	(EtaB-EtaF)/EtaB
10	130,62	115,89	88,72%	117,29	89,79%	1,19%
9	111,27	107,13	96,28%	108,28	97,32%	1,06%
8	98,97	95,35	96,34%	96,26	97,26%	0,95%
7	86,76	83,52	96,26%	84,23	97,08%	0,84%
6	74,52	71,67	96,18%	72,19	96,88%	0,72%
5	62,28	59,79	96,01%	60,16	96,59%	0,61%
4	50,10	47,89	95,59%	48,12	96,06%	0,48%
3	37,56	35,96	95,74%	36,09	96,09%	0,36%
2	25,14	24,00	95,47%	24,06	95,70%	0,24%
1	12,96	12,01	92,65%	12,02	92,77%	0,12%

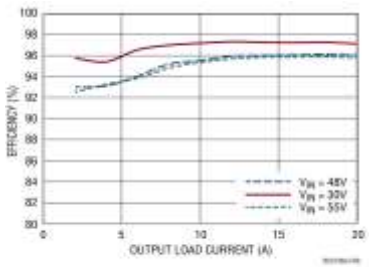
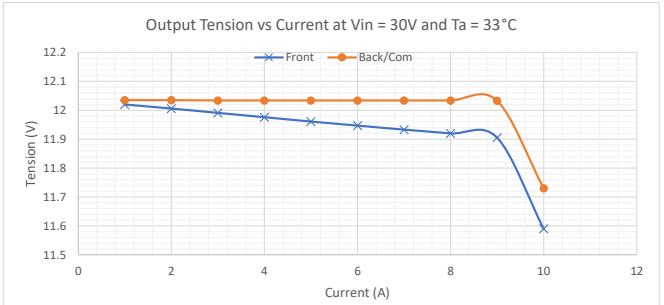
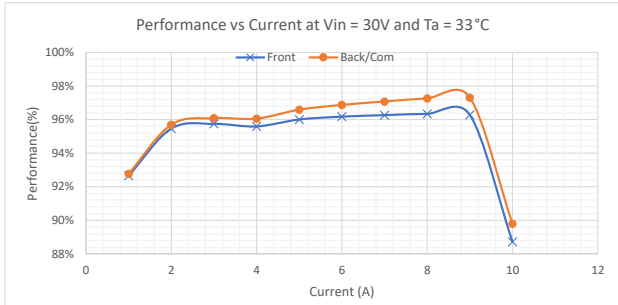
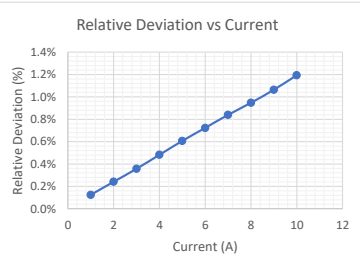
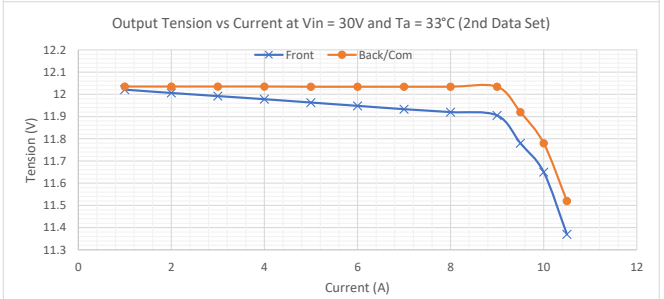


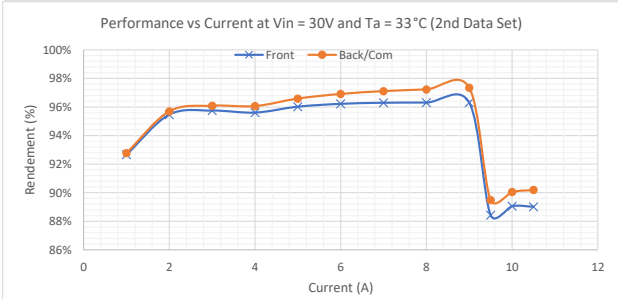
Figure 3. Efficiency vs Load Current at V_{OUT} = 12V, f_{SW} = 500kHz

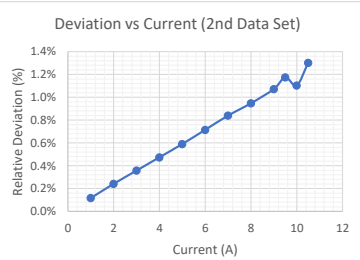












Measurements using KEL103 with 2-wires and 4-wires methods - 2022/07/19

Target Current (A)	Input		Output		
	Courant (A)	Tension (V)	Courant (A)	Tension Front (V)	Tension Back/Com (V)
10,5	4,47	30	10,499	11,37	11,52
10	4,36	30	9,999	11,65	11,78
9,5	4,218	30	9,499	11,78	11,92
9	3,708	30	8,999	11,905	12,034
8	3,3	30	7,999	11,92	12,034
7	2,891	30	6,999	11,933	12,034
6	2,483	30	5,999	11,948	12,034
5	2,076	30	4,999	11,963	12,034
4	1,67	30	3,999	11,978	12,035
3	1,252	30	2,999	11,992	12,035
2	0,838	30	1,999	12,006	12,035
1	0,432	30	0,999	12,021	12,035

Performance of DC2726A

Target Current (A)	Pin (W)	Front		Back/Com		Relative Deviation
		Pout (W)	eta (%)	Pout (W)	eta (%)	(EtaB-EtaF)/EtaB
10,5	134,10	119,37	89,02%	120,95	90,19%	1,30%
10	130,80	116,49	89,06%	117,79	90,05%	1,10%
9,5	126,54	111,90	88,43%	113,23	89,48%	1,17%
9	111,24	107,13	96,31%	108,29	97,35%	1,07%
8	99,00	95,35	96,31%	96,26	97,23%	0,95%
7	86,73	83,52	96,30%	84,23	97,11%	0,84%
6	74,49	71,68	96,22%	72,19	96,91%	0,71%
5	62,28	59,80	96,02%	60,16	96,59%	0,59%
4	50,10	47,90	95,61%	48,13	96,06%	0,47%
3	37,56	35,96	95,75%	36,09	96,09%	0,36%
2	25,14	24,00	95,47%	24,06	95,70%	0,24%
1	12,96	12,01	92,66%	12,02	92,77%	0,12%

Non-stabilizable measurement even after 1min

Almost stable measurement after 10 sec

Very stable measurement immediately