

Output Voltage Adjustment

Output voltage set point adjustment allows the user to increase or decrease the output voltage set point of the module. This is accomplished by connecting an external resistor between the Trim pin and either the +Vout or -Vout pins.

Single models: With an external resistor between the Trim and -Vout pin, the output voltage set point increases.

With an external resistor between the Trim and +Vout pin, the output voltage set point decreases.

Dual models: With an external resistor between the Trim and -Vout2 pin, the output voltage set point increases.

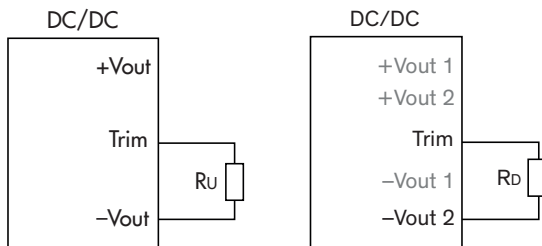
With an external resistor between the Trim and +Vout1 pin, the output voltage set point decrease

The external TRIM resistor needs to be at least 1/16 W of rated power.

Connection of trim up resistor

single output:

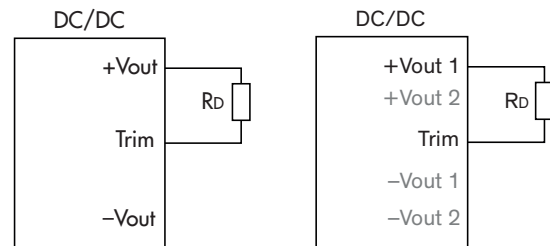
dual output:



Connection of trim down resistor

single output:

dual output:



Trim-Tables for single output converters

TVN 05-xx10WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	3.333	3.366	3.399	3.432	3.465	3.498	3.531	3.564	3.597	3.630
R _u [kOhm]	385.837	191.894	127.246	94.922	75.527	62.598	53.362	46.436	41.049	36.739
	11 %	12 %	13 %	14 %	15 %	16 %	17 %	18 %	19 %	20 %
Vout [V]	3.663	3.696	3.729	3.763	3.795	3.828	3.861	3.894	3.927	3.960
R _u [kOhm]	33.212	30.274	27.787	25.656	23.809	22.192	20.766	19.499	18.365	17.344
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	3.267	3.234	3.201	3.168	3.135	3.102	3.069	3.036	3.003	2.970
R _p [kOhm]	114.963	53.906	33.554	23.378	17.273	13.202	10.295	8.114	6.418	5.061

TVN 05-xx11WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	5.05	5.10	5.15	5.20	5.25	5.30	5.35	5.40	5.45	5.50
R _u [kOhm]	252.30	125.13	82.73	61.54	48.82	40.34	34.29	29.74	26.21	23.39
	11 %	12 %	13 %	14 %	15 %	16 %	17 %	18 %	19 %	20 %
Vout [V]	5.55	5.60	5.65	5.70	5.75	5.80	5.85	5.90	5.95	6.00
R _u [kOhm]	21.07	19.15	17.52	16.12	14.91	13.85	12.91	12.08	11.34	10.67
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	4.95	4.90	4.85	4.80	4.75	4.70	4.65	4.60	4.55	4.50
R _p [kOhm]	248.5	120.67	78.07	56.76	43.98	35.46	29.37	24.81	21.26	18.42

Output Voltage Adjustment

Trim-Tables for single output converters (continued)

TVN 05-xx12WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
V _{out} [V]	12.12	12.24	12.36	12.48	12.60	12.72	12.84	12.96	13.08	13.20
R _u [kOhm]	202.65	98.77	64.15	46.84	36.45	29.52	24.58	20.87	17.98	15.67
	11 %	12 %	13 %	14 %	15 %	16 %	17 %	18 %	19 %	20 %
V _{out} [V]	13.32	13.44	13.56	13.68	13.80	13.92	14.04	14.16	14.28	14.40
R _u [kOhm]	13.79	12.21	10.880	9.74	8.75	7.88	7.12	6.44	5.83	5.29
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
V _{out} [V]	11.88	11.76	11.64	11.52	11.40	11.28	11.16	11.04	10.92	10.80
R _p [kOhm]	777.16	381.03	248.99	182.96	143.35	116.94	98.08	83.93	72.93	64.13

TVN 05-xx13WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
V _{out} [V]	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	16.50
R _u [kOhm]	161.02	77.96	50.28	36.43	28.13	22.59	18.63	15.67	13.36	11.51
	11 %	12 %	13 %	14 %	15 %	16 %	17 %	18 %	19 %	20 %
V _{out} [V]	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	18.00
R _u [kOhm]	10.00	8.74	7.68	6.77	5.98	5.28	4.67	4.13	3.64	3.201
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
V _{out} [V]	14.85	14.70	14.55	14.40	14.25	14.10	13.95	13.80	13.65	13.50
R _p [kOhm]	818.78	401.84	262.86	193.37	151.68	123.88	104.03	89.14	77.55	68.29

TVN 05-xx15WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
V _{out} [V]	24.24	24.48	24.72	24.96	25.20	25.44	25.68	25.92	26.16	26.40
R _u [kOhm]	568.2	277.6	180.73	132.3	103.24	83.87	70.03	59.65	51.58	45.12
	11 %	12 %	13 %	14 %	15 %	16 %	17 %	18 %	19 %	20 %
V _{out} [V]	26.64	26.88	27.12	27.36	27.60	27.84	28.08	28.32	28.56	28.80
R _u [kOhm]	39.84	35.43	31.71	28.51	25.75	23.33	21.19	19.29	17.59	16.060
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
V _{out} [V]	23.76	23.52	23.28	23.04	22.80	22.56	22.32	22.08	21.84	21.60
R _p [kOhm]	4949.80	2440.40	1603.93	1185.70	934.76	767.47	647.97	558.35	488.65	432.88

Output Voltage Adjustment

Trim-Tables for dual output converters

TVN 05-xx21WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±5.05	±5.10	±5.15	±5.20	±5.25	±5.30	±5.35	±5.40	±5.45	±5.50
R _u [kOhm]	71.84	34.42	21.95	15.71	11.97	9.47	7.69	6.36	5.32	4.48
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±4.95	±4.90	±4.85	±4.80	±4.75	±4.70	±4.65	±4.60	±4.55	±4.50
R _p [kOhm]	219.16	106.58	69.05	50.29	39.03	31.53	26.17	22.14	19.02	16.52

TVN 05-xx22WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±12.12	±12.24	±12.36	±12.48	±12.60	±12.72	±12.84	±12.96	±13.08	±13.20
R _u [kOhm]	568.20	277.60	180.73	132.30	103.24	83.87	70.03	59.65	51.58	45.12
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±11.88	±11.76	±11.64	±11.52	±11.40	±11.28	±11.16	±11.04	±10.92	±10.80
R _p [kOhm]	4949.80	2440.40	1603.93	1185.70	934.76	767.47	647.97	558.35	488.65	432.88

TVN 05-xx23WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±15.15	±15.30	±15.45	±15.60	±15.75	±15.90	±16.05	±16.20	±16.35	±16.50
R _u [kOhm]	236.25	111.63	70.08	49.31	36.85	28.54	22.61	18.16	14.69	11.93
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±14.85	±14.70	±14.55	±14.40	±14.25	±14.10	±13.95	±13.80	±13.65	±13.50
R _p [kOhm]	2707.75	1332.38	873.92	644.69	507.15	415.46	349.96	300.84	262.64	232.08

TVN 05-xx25WI										
Trim-Up										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±24.24	±24.48	±24.72	±24.96	±25.20	±25.44	±25.68	±25.92	±26.16	±26.40
R _u [kOhm]	609.71	298.36	194.57	142.68	111.54	90.79	75.96	64.84	56.19	49.27
Trim-Down										
	1 %	2 %	3 %	4 %	5 %	6 %	7 %	8 %	9 %	10 %
Vout [V]	±23.76	±23.52	±23.28	±23.04	±22.80	±22.56	±22.32	±22.08	±21.84	±21.60
R _p [kOhm]	1244.29	5555.64	3659.43	2711.32	2142.46	1763.21	1492.33	1289.16	1131.14	1004.73