

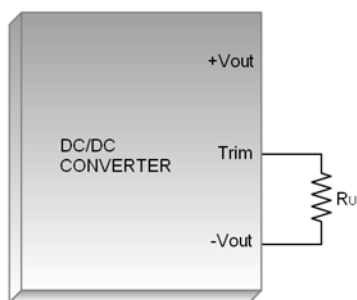
06.02.2015 / AS

TEN 60WIN SERIES Trimtable (as preliminary version of application note)

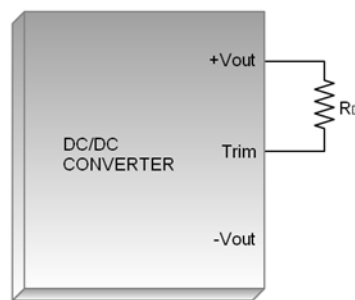
Output voltage adjustment

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. 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. The external TRIM resistor needs to be at least 1/8W of rated power. Only for models with single output!

TRIM UP



TRIM DOWN



TEN 60-xx10WIN

TRIM UP

Trim-Up	1	2	3	4	5	6	7	8	9	10	(%)
Vout	3.333	3.366	3.399	3.432	3.465	3.498	3.531	3.564	3.597	3.630	(V)
RU	57.93	26.165	15.577	10.283	7.106	4.988	3.476	2.341	1.459	0.753	(kΩ)

TRIM DOWN

Trim-Down	1	2	3	4	5	6	7	8	9	10	(%)
Vout	3.267	3.234	3.201	3.168	3.135	3.102	3.069	3.036	3.003	2.970	(V)
RD	69.47	31.235	18.49	12.117	8.294	5.745	3.924	2.559	1.497	0.647	(kΩ)

TEN 60-xx11WIN

TRIM UP

Trim-Up	1	2	3	4	5	6	7	8	9	10	(%)
Vout	5.050	5.100	5.150	5.200	5.250	5.300	5.350	5.400	5.450	5.500	(V)
RU	36.57	16.58	9.917	6.585	4.586	3.253	2.302	1.588	1.032	0.588	(kΩ)

TEN 60-xx11WIN (continued)

TRIM DOWN

Trim-Down	1	2	3	4	5	6	7	8	9	10	(%)
Vout	4.950	4.900	4.850	4.800	4.750	4.700	4.650	4.600	4.550	4.500	(V)
RD	45.533	20.612	12.306	8.152	5.66	3.999	2.812	1.922	1.23	0.676	(kΩ)

TEN 60-xx12WIN

TRIM UP

Trim-Up	1	2	3	4	5	6	7	8	9	10	(%)
Vout	12.120	12.240	12.360	12.480	12.600	12.720	12.840	12.960	13.080	13.200	(V)
RU	367.91	165.95	98.636	64.977	44.782	31.318	21.701	14.488	8.879	4.391	(kΩ)

TRIM DOWN

Trim-Down	1	2	3	4	5	6	7	8	9	10	(%)
Vout	11.88	11.760	11.640	11.520	11.400	11.280	11.160	11.040	10.920	10.800	(V)
RD	460.99	207.95	123.6	81.423	56.118	39.249	27.199	18.162	11.132	5.509	(kΩ)

TEN 60-xx13WIN

TRIM UP

Trim-Up	1	2	3	4	5	6	7	8	9	10	(%)
Vout	15.150	15.300	15.450	15.600	15.750	15.900	16.050	16.200	16.350	16.500	(V)
RU	419.81	199.91	126.60	89.95	67.96	53.30	42.83	34.98	28.87	23.98	(kΩ)
Trim-Up	11	12	13	14	15	16	17	18	19	20	(%)
Vout	16.650	16.800	16.950	17.100	17.250	17.400	17.550	17.700	17.850	18.000	(V)
RU	19.98	16.65	13.83	11.42	9.32	7.49	5.87	4.43	3.15	1.99	(kΩ)

TRIM DOWN

Trim-Down	1	2	3	4	5	6	7	8	9	10	(%)
Vout	14.850	14.700	14.550	14.400	14.250	14.000	13.750	13.500	13.250	13.000	(V)
RD	284.89	128.68	76.61	50.58	34.96	24.55	17.11	11.53	7.19	3.72	(kΩ)

TEN 60-xx15WIN

TRIM UP

Trim-Up	1	2	3	4	5	6	7	8	9	10	(%)
Vout	24.240	24.480	24.720	24.960	25.200	25.440	25.680	25.920	26.160	26.400	(V)
RU	1275.2	606.60	383.73	272.30	205.44	160.87	129.03	105.15	86.58	71.72	(kΩ)
Trim-Up	11	12	13	14	15	16	17	18	19	20	(%)
Vout	26.640	26.880	27.120	27.360	27.600	27.840	28.080	28.320	28.560	28.800	(V)
RU	59.56	49.43	40.86	33.51	27.15	21.57	16.66	12.29	8.38	4.86	(kΩ)

TRIM DOWN

Trim-Down	1	2	3	4	5	6	7	8	9	10	(%)
Vout	23.760	23.520	23.280	23.040	22.800	22.560	22.320	22.080	21.840	21.600	(V)
RD	838.15	376.78	222.98	146.09	99.95	69.19	47.22	30.74	17.93	7.68	(kΩ)