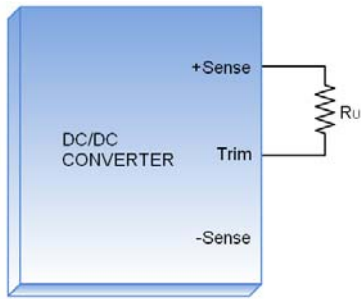


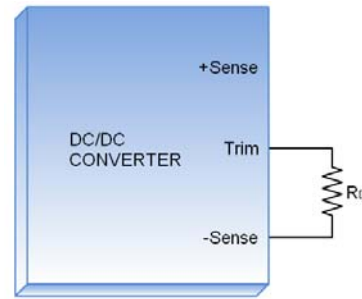
**HAE75W Trim Table**

**Output Voltage Adjustment**

Output voltage is adjustable for 10% trim up or -20% trim down of nominal output voltage by connecting an external resistor between the Trim pin and either the +Sense or -Sense pins. With an external resistor between the Trim and -Sense pin, the output voltage set point decreases. With an external resistor between the Trim and +Sense pin, the output voltage set point increases. Maximum output deviation is +10% inclusive of remote sense. The value of external resistor can be obtained by equation or trim table shown in next page. The external TRIM resistor needs to be at least 1/8W of rated power.



TRIM-UP



TRIM-DOWN

Output voltage adjustment configurations

TRIM EQUATION

$$R_U = \left( \frac{V_{OUT}(100 + \Delta\%)}{1.225\Delta\%} - \frac{100 + 2\Delta\%}{\Delta\%} \right) k\Omega$$

$$R_D = \left( \frac{100}{\Delta\%} - 2 \right) k\Omega$$

TRIM TABLE

□□S3P3W		TRIM-UP									
Trim-Up (%)	(%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	(V)	3.333	3.366	3.399	3.432	3.465	3.498	3.531	3.564	3.597	3.630
RU (kΩ)	(kΩ)	170.082	85.388	57.156	43.041	34.571	28.925	24.892	21.867	19.515	17.633

□□S05W		TRIM-UP									
Trim-Up (%)	(%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	(V)	5.05	5.10	5.15	5.20	5.25	5.30	5.35	5.40	5.45	5.50
RU (kΩ)	(kΩ)	310.245	156.163	104.803	79.122	63.714	53.442	46.105	40.602	36.322	32.898

□□S12W		TRIM-UP									
Trim-Up (%)	(%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	(V)	12.12	12.24	12.36	12.48	12.60	12.72	12.84	12.96	13.08	13.20
RU (kΩ)	(kΩ)	887.388	447.592	300.993	227.694	183.714	154.395	133.452	117.745	105.528	95.755

□□S15W		TRIM-UP									
Trim-Up (%)	(%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	(V)	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	16.50
RU (kΩ)	(kΩ)	1134.735	572.490	385.075	291.367	235.143	197.660	170.886	150.806	135.188	122.694

□□S24W		TRIM-UP									
Trim-Up (%)	(%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	(V)	24.24	24.48	24.72	24.96	25.20	25.44	25.68	25.92	26.16	26.40
RU (kΩ)	(kΩ)	1876.776	947.184	637.320	482.388	389.429	327.456	283.190	249.990	224.168	203.510

□□S28W		TRIM-UP									
Trim-Up (%)	(%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	(V)	28.28	28.56	28.84	29.12	29.40	29.68	29.96	30.24	30.52	30.80
RU (kΩ)	(kΩ)	2206.571	1113.714	749.429	567.286	458.000	385.143	333.102	294.071	263.714	239.429

Output Voltage Adjustment (Continued)

□□S48W		TRIM-UP									
Trim-Up	(%)	1	2	3	4	5	6	7	8	9	10
Vout	(V)	48.48	48.96	49.44	49.92	50.40	50.88	51.36	51.84	52.32	52.80
RU	(kΩ)	3855.551	1946.367	1309.973	991.776	800.857	673.578	582.665	514.480	461.447	419.020

□□S□□W		TRIM-DOWN									
Trim-Down	(%)	1	2	3	4	5	6	7	8	9	10
RD	(kΩ)	98.000	48.000	31.333	23.000	18.000	14.667	12.286	10.500	9.111	8.000
Trim-Down	(%)	11	12	13	14	15	16	17	18	19	20
RD	(kΩ)	7.091	6.333	5.692	5.143	4.667	4.250	3.882	3.556	3.263	3.000

Remote Sense

To minimum the effects of distribution losses by regulating the voltage at the Remote Sense pin. The voltage between the SENSE pin and OUTPUT pin must not exceed 10% of Vout, i.e.

$$[ +\text{OUTPUT to } -\text{OUTPUT} ] - [ +\text{SENSE to } -\text{SENSE} ] \leq 10\% \text{ Vout}$$

The voltage between +OUTPUT and -OUTPUT terminals must not exceed the minimum output overvoltage protection threshold. This limit includes any increase in voltage due to remote sense compensation and trim function.

If not using the remote sense feature to regulate the output at the point of load, then connect +SENSE to +OUTPUT and -SENSE to -OUTPUT.

