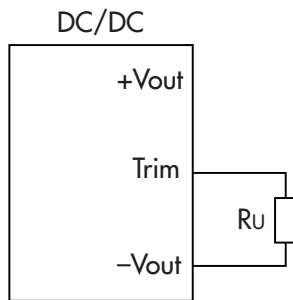


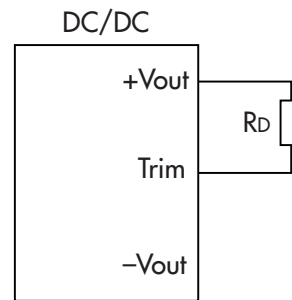
Output Voltage Adjustment

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 1/8 W of rated power.

Connection of trim up resistor



Connection of trim down resistor



Trim-Tables for single output converters

| TEN 40-xx10(WI)E | | | | | | | | | | |
|------------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 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] | 43.179 | 21.758 | 13.410 | 8.966 | 6.206 | 4.325 | 2.961 | 1.927 | 1.115 | 0.462 |
| 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_D [kOhm] | 68.728 | 31.256 | 18.592 | 12.227 | 8.398 | 5.841 | 4.012 | 2.639 | 1.570 | 0.715 |

| TEN 40-xx11(WI)E | | | | | | | | | | |
|------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 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] | 35.360 | 16.244 | 9.752 | 6.483 | 4.514 | 3.198 | 2.257 | 1.550 | 1.000 | 0.559 |
| 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_D [kOhm] | 46.686 | 20.817 | 12.360 | 8.162 | 5.653 | 3.984 | 2.794 | 1.903 | 1.210 | 0.656 |

Output Voltage Adjustment

Trim-Tables for single output converters (continued)

TEN 40-xx12(WI)E

| 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] | 392.864 | 172.175 | 101.446 | 66.591 | 45.837 | 32.068 | 22.264 | 14.929 | 9.234 | 4.685 |
| 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_d [kOhm] | 435.294 | 201.116 | 120.429 | 79.573 | 54.894 | 38.371 | 26.535 | 17.639 | 10.709 | 5.157 |

TEN 40-xx13(WI)E

| 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] | 413.163 | 198.115 | 125.754 | 89.445 | 67.618 | 53.050 | 42.636 | 34.820 | 28.739 | 23.872 |
| | 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] | 19.888 | 16.568 | 13.759 | 11.350 | 9.262 | 7.434 | 5.822 | 4.389 | 3.106 | 1.951 |
| 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_d [kOhm] | 302.154 | 132.978 | 78.547 | 51.685 | 35.680 | 25.055 | 17.489 | 11.826 | 7.429 | 3.916 |

TEN 40-xx15(WI)E

| 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] | 947.146 | 472.772 | 303.499 | 216.605 | 163.724 | 128.153 | 102.589 | 83.329 | 68.298 | 56.240 |
| | 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] | 46.353 | 38.099 | 31.104 | 25.101 | 19.892 | 15.330 | 11.302 | 7.718 | 4.509 | 1.619 |
| 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_d [kOhm] | 736.063 | 326.672 | 192.473 | 125.790 | 85.913 | 59.383 | 40.459 | 26.282 | 15.263 | 6.454 |