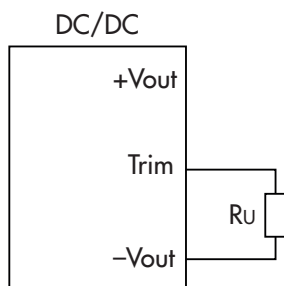


Output Voltage Adjustment

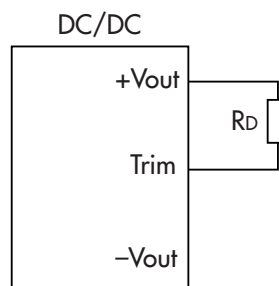
This feature allows increasing and decreasing the output voltage of single output models. This is accomplished by connecting an external resistor between the Trim pin and either the +Vout or -Vout pin.

For trimming up, it must be assured that max. output power is not exceeded.

Connection of trim up resistor



Connection of trim down resistor



| THR 40-xx05WI | | | | | | | | | | |
|-----------------------|--------|-------|-------|-------|-------|-------|------|------|------|------|
| 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] | 119.77 | 53.70 | 31.67 | 20.66 | 14.05 | 9.65 | 6.50 | 4.14 | 2.31 | 0.84 |
| 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] | 156.81 | 70.69 | 41.99 | 27.64 | 19.03 | 13.29 | 9.18 | 6.11 | 3.72 | 1.80 |

| THR 40-xx12WI | | | | | | | | | | |
|-----------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 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] | 344.74 | 154.37 | 90.92 | 59.19 | 40.15 | 27.46 | 18.39 | 11.59 | 6.31 | 2.07 |
| 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 | 11.80 |
| R _d [kOhm] | 419.81 | 187.68 | 110.30 | 71.61 | 48.40 | 32.93 | 21.87 | 13.58 | 7.13 | 1.98 |

| THR 40-xx15WI | | | | | | | | | | |
|-----------------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 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] | 482.88 | 215.89 | 126.89 | 82.40 | 55.70 | 37.90 | 25.18 | 15.65 | 8.23 | 2.30 |
| 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 _d [kOhm] | 602.92 | 269.91 | 158.91 | 103.41 | 70.10 | 47.90 | 32.05 | 20.15 | 10.90 | 3.50 |

THR 40-xx24WI

| 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] | 486.83 | 217.87 | 128.21 | 83.38 | 56.49 | 38.56 | 25.75 | 16.14 | 8.67 | 2.69 |
| 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] | 598.97 | 267.93 | 157.59 | 102.42 | 69.31 | 47.25 | 31.48 | 19.66 | 10.46 | 3.11 |

THR 40-xx52WI

| Trim-up | 1% | 2% | 3% | 4% | 5% | - | - | - | - | - |
|-----------------------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| V _{out} [V] | 52.52 | 53.04 | 53.56 | 54.08 | 54.60 | - | - | - | - | - |
| R _u [kOhm] | 487.21 | 191.10 | 92.40 | 43.05 | 13.44 | - | - | - | - | - |
| Trim-down | 1% | 2% | 3% | 4% | 5% | 6% | 7% | 8% | 9% | 10% |
| V _{out} [V] | 51.48 | 50.96 | 50.44 | 49.92 | 49.40 | 48.88 | 48.36 | 47.84 | 47.32 | 46.80 |
| R _D [kOhm] | 1946.08 | 907.19 | 560.89 | 387.75 | 283.86 | 214.60 | 165.13 | 128.02 | 99.16 | 76.08 |
| Trim-down | 11% | 12% | 13% | 14% | 15% | - | - | - | - | - |
| V _{out} [V] | 46.28 | 45.76 | 45.24 | 44.72 | 44.20 | - | - | - | - | - |
| R _D [kOhm] | 57.19 | 41.45 | 28.13 | 16.71 | 6.82 | - | - | - | - | - |