

| Experimental Parameters | | $p_1 = p_0$ | | | | | Constrained | | Unconstrained | | | | |
|-------------------------|----------|-------------|------------------|-----------------|---------------------------|------------------------|---------------------------|----------------------|---------------------------|----------------------|------------------------|--|--|
| p (%) | R_{cc} | c_2 | π, π_M (%) | 1S Rel cost (%) | Stage 1,2, tot. power (%) | Tot. power sensitivity | π_0, π_1, π_M (%) | 1S, 2S Rel. cost (%) | Stage 1,2, tot. power (%) | Sim. total power (%) | Tot. power sensitivity | | |
| 50 | 1 | 1 | 31.38, 10.21 | 38.39 | 94.8, 82.3, 78.0 | 64.98, 88.03 | 32, 31, 9.9 | 38.28, 99.73 | 94.70, 82.37, 78.00 | 78.32 | 65.27, 88.11 | | |
| 50 | 1 | 10 | 46.21, 1.03 | 52.23 | 92.7, 84.1, 78.0 | 68.64, 85.42 | 46, 46, 1.2 | 52.48, 100.47 | 92.62, 84.21, 78.00 | 78.05 | 68.52, 85.97 | | |
| 50 | 1 | 100 | 58.84, 0.15 | 65.45 | 89.7, 87.0, 78.0 | 71.25, 84.00 | 60, 62, 0.1 | 64.90, 99.16 | 89.96, 86.74, 78.04 | 78.55 | 72.04, 84.00 | | |
| 50 | 2 | 1 | 30.48, 10.11 | 37.50 | 94.2, 82.8, 78.0 | 65.01, 87.54 | 29, 33, 9.3 | 36.81, 98.14 | 94.41, 82.64, 78.02 | 78.34 | 65.40, 88.22 | | |
| 50 | 2 | 10 | 45.06, 1.22 | 51.76 | 92.1, 84.7, 78.0 | 68.22, 85.51 | 44, 50, 0.9 | 50.86, 98.25 | 92.36, 84.48, 78.02 | 78.18 | 68.87, 85.81 | | |
| 50 | 2 | 100 | 60.76, 0.05 | 62.72 | 86.0, 90.7, 78.0 | 70.90, 80.90 | 57, 63, 0.1 | 63.10, 100.60 | 89.96, 86.77, 78.06 | 77.86 | 72.55, 83.89 | | |
| 50 | 4 | 1 | 29.66, 9.33 | 36.22 | 93.3, 83.6, 78.0 | 65.66, 87.83 | 23, 34, 8.1 | 31.25, 86.29 | 93.55, 83.38, 78.01 | 78.30 | 65.49, 87.12 | | |
| 50 | 4 | 10 | 44.09, 1.12 | 50.35 | 91.1, 85.6, 78.0 | 69.01, 85.63 | 36, 50, 0.9 | 44.30, 87.99 | 91.82, 84.97, 78.02 | 78.24 | 69.03, 85.67 | | |
| 50 | 4 | 100 | 59.27, 0.15 | 65.37 | 90.9, 85.8, 78.0 | 72.80, 85.06 | 48, 64, 0.1 | 56.08, 85.77 | 89.89, 86.82, 78.04 | 78.38 | 71.77, 83.85 | | |
| 50 | 8 | 1 | 31.78, 10.01 | 38.60 | 94.7, 82.4, 78.0 | 65.07, 87.94 | 25, 39, 7.9 | 32.35, 83.80 | 96.06, 81.20, 78.00 | 78.20 | 65.49, 88.24 | | |
| 50 | 8 | 10 | 46.97, 1.12 | 52.90 | 92.6, 84.2, 78.0 | 68.68, 85.71 | 38, 54, 0.9 | 45.19, 85.42 | 94.21, 82.82, 78.02 | 78.19 | 69.22, 86.06 | | |
| 50 | 8 | 100 | 58.08, 0.15 | 64.36 | 89.7, 87.0, 78.0 | 70.81, 83.13 | 50, 66, 0.1 | 56.60, 87.93 | 91.53, 85.23, 78.02 | 78.38 | 72.08, 83.84 | | |
| 25 | 1 | 1 | 28.79, 9.62 | 35.64 | 93.0, 83.9, 78.0 | 70.23, 84.79 | 28, 29, 9.3 | 35.14, 98.63 | 95.00, 82.12, 78.01 | 77.97 | 69.79, 84.24 | | |
| 25 | 1 | 10 | 42.85, 1.22 | 49.82 | 90.9, 85.8, 78.0 | 71.83, 82.51 | 43, 44, 1.0 | 49.15, 98.65 | 92.72, 84.15, 78.02 | 77.17 | 71.37, 82.05 | | |
| 25 | 1 | 100 | 58.59, 0.05 | 60.66 | 84.6, 92.2, 78.0 | 72.89, 79.42 | 55, 60, 0.1 | 61.75, 101.79 | 89.96, 86.74, 78.04 | 78.13 | 73.77, 81.27 | | |
| 25 | 2 | 1 | 30.97, 9.03 | 37.20 | 94.4, 82.6, 78.0 | 69.61, 84.41 | 27, 32, 9.3 | 35.30, 94.88 | 94.16, 82.84, 78.00 | 77.89 | 69.39, 84.50 | | |
| 25 | 2 | 10 | 45.39, 1.12 | 51.50 | 92.3, 84.5, 78.0 | 71.87, 83.09 | 41, 47, 1.1 | 49.27, 95.65 | 92.13, 84.69, 78.02 | 77.98 | 71.18, 82.76 | | |
| 25 | 2 | 100 | 60.70, 0.05 | 62.66 | 86.2, 90.5, 78.0 | 73.13, 80.15 | 57, 63, 0.1 | 63.10, 100.69 | 89.96, 86.77, 78.06 | 78.14 | 74.07, 82.13 | | |
| 25 | 4 | 1 | 30.06, 10.11 | 37.13 | 94.7, 82.4, 78.0 | 68.35, 84.31 | 27, 35, 8.9 | 34.95, 94.13 | 95.69, 81.53, 78.01 | 77.71 | 68.83, 84.60 | | |
| 25 | 4 | 10 | 45.38, 1.12 | 51.49 | 92.5, 84.3, 78.0 | 70.66, 82.67 | 41, 50, 1.0 | 48.52, 94.21 | 93.59, 83.35, 78.01 | 77.46 | 70.79, 83.05 | | |
| 25 | 4 | 100 | 60.74, 0.05 | 62.70 | 86.4, 90.3, 78.0 | 72.47, 79.58 | 48, 64, 0.1 | 56.08, 89.43 | 89.89, 86.82, 78.04 | 76.72 | 72.10, 80.75 | | |
| 25 | 8 | 1 | 29.67, 9.42 | 36.29 | 94.2, 82.8, 78.0 | 69.06, 84.96 | 20, 37, 6.4 | 26.88, 74.08 | 94.93, 82.17, 78.00 | 77.83 | 68.86, 84.36 | | |
| 25 | 8 | 10 | 44.97, 1.12 | 51.13 | 92.5, 84.3, 78.0 | 71.43, 83.38 | 31, 52, 0.8 | 38.66, 75.61 | 93.39, 83.55, 78.02 | 77.78 | 71.25, 82.88 | | |
| 25 | 8 | 100 | 59.81, 0.05 | 61.81 | 85.8, 90.9, 78.0 | 73.11, 80.17 | 42, 63, 0.1 | 49.90, 88.16 | 90.52, 86.19, 78.02 | 77.81 | 72.89, 81.24 | | |
| 10 | 1 | 1 | 26.86, 9.81 | 34.03 | 93.5, 83.4, 78.0 | 71.17, 83.02 | 27, 27, 9.9 | 34.22, 100.56 | 92.34, 84.47, 78.00 | 78.30 | 71.61, 83.23 | | |
| 10 | 1 | 10 | 43.73, 1.12 | 50.03 | 91.3, 85.4, 78.0 | 73.96, 82.73 | 42, 44, 0.9 | 48.13, 96.19 | 89.89, 86.78, 78.00 | 78.05 | 72.90, 81.68 | | |
| 10 | 1 | 100 | 59.02, 0.05 | 61.06 | 85.0, 91.8, 78.0 | 74.46, 79.53 | 53, 60, 0.1 | 60.85, 99.64 | 87.93, 88.78, 78.06 | 78.23 | 74.91, 80.87 | | |
| 10 | 2 | 1 | 27.92, 9.91 | 35.06 | 93.8, 83.2, 78.0 | 71.20, 83.95 | 22, 30, 8.6 | 31.14, 88.82 | 92.38, 84.44, 78.01 | 77.71 | 70.15, 83.00 | | |
| 10 | 2 | 10 | 44.17, 1.03 | 49.92 | 91.9, 84.9, 78.0 | 73.37, 82.98 | 35, 47, 0.9 | 44.49, 89.12 | 90.65, 86.06, 78.01 | 77.47 | 72.27, 81.85 | | |
| 10 | 2 | 100 | 58.48, 0.05 | 60.55 | 85.0, 91.8, 78.0 | 73.70, 79.55 | 47, 61, 0.1 | 56.50, 93.30 | 88.52, 88.12, 78.00 | 77.47 | 73.77, 80.53 | | |
| 10 | 4 | 1 | 27.55, 9.13 | 34.16 | 93.6, 83.3, 78.0 | 70.65, 83.93 | 18, 32, 7.2 | 26.50, 77.57 | 92.78, 84.09, 78.02 | 77.40 | 69.78, 82.78 | | |
| 10 | 4 | 10 | 41.91, 1.22 | 48.99 | 91.8, 85.0, 78.0 | 73.05, 83.21 | 30, 49, 0.7 | 38.43, 78.44 | 91.06, 85.66, 78.00 | 77.13 | 71.59, 81.50 | | |
| 10 | 4 | 100 | 57.53, 0.05 | 59.65 | 84.5, 92.3, 78.0 | 73.62, 79.28 | 40, 61, 0.1 | 49.78, 83.44 | 89.10, 87.57, 78.03 | 77.42 | 72.92, 80.36 | | |
| 10 | 8 | 1 | 26.22, 9.03 | 32.88 | 92.8, 84.1, 78.0 | 70.65, 83.88 | 14, 36, 4.7 | 20.37, 61.95 | 93.04, 83.85, 78.02 | 77.09 | 70.00, 82.68 | | |
| 10 | 8 | 10 | 41.60, 0.93 | 47.03 | 90.3, 86.4, 78.0 | 73.12, 83.21 | 22, 49, 0.7 | 30.25, 64.31 | 91.43, 85.34, 78.03 | 77.00 | 71.13, 81.32 | | |
| 10 | 8 | 100 | 56.07, 0.05 | 58.26 | 83.4, 93.6, 78.0 | 73.37, 78.69 | 30, 62, 0.1 | 40.20, 68.99 | 90.05, 86.64, 78.03 | 77.27 | 72.97, 80.50 | | |