

Bus

	ID	Zone	kV Base	V sol [pu]	Ang sol [deg]	Vmin [pu]	Vmax [pu]	P Gen [MW]
1	B1	0	345.00	1.036	-8.8	0.900	1.100	0.00
2	B10	0	345.00	0.959	-5.1	0.900	1.100	0.00
3	B11	0	345.00	0.956	-6.1	0.900	1.100	0.00
4	B12	0	138.00	0.936	-6.1	0.900	1.100	0.00
5	B13	0	345.00	0.958	-5.9	0.900	1.100	0.00
6	B14	0	345.00	0.959	-7.7	0.900	1.100	0.00
7	B15	0	345.00	0.967	-7.9	0.900	1.100	0.00
8	B16	0	345.00	0.987	-6.2	0.900	1.100	0.00
9	B17	0	345.00	0.991	-7.4	0.900	1.100	0.00
10	B18	0	345.00	0.989	-8.4	0.900	1.100	0.00
11	B19	0	345.00	0.989	-0.4	0.900	1.100	0.00
12	B2	0	345.00	1.018	-5.8	0.900	1.100	0.00
13	B20	0	230.00	0.987	-1.4	0.900	1.100	0.00
14	B21	0	345.00	0.994	-3.6	0.900	1.100	0.00
15	B22	0	345.00	1.020	1.1	0.900	1.100	0.00
16	B23	0	345.00	1.019	0.9	0.900	1.100	0.00
17	B24	0	345.00	0.995	-6.1	0.900	1.100	0.00
18	B25	0	345.00	1.027	-4.4	0.900	1.100	0.00
19	B26	0	345.00	1.017	-5.6	0.900	1.100	0.00
20	B27	0	345.00	0.999	-7.7	0.900	1.100	0.00
21	B28	0	345.00	1.019	-1.8	0.900	1.100	0.00
22	B29	0	345.00	1.020	1.1	0.900	1.100	0.00
23	B3	0	345.00	0.990	-8.8	0.900	1.100	0.00
24	B30	0	16.50	1.048	-3.5	0.900	1.100	250.00
25	B31	0	16.50	0.982	0.0	0.900	1.100	530.84
26	B32	0	16.50	0.983	2.7	0.900	1.100	650.00
27	B33	0	16.50	0.997	4.8	0.900	1.100	632.00
28	B34	0	16.50	1.012	3.8	0.900	1.100	508.00
29	B35	0	16.50	1.049	6.0	0.900	1.100	650.00
30	B36	0	16.50	1.064	8.9	0.900	1.100	560.00
31	B37	0	16.50	1.028	2.4	0.900	1.100	540.00
32	B38	0	16.50	1.026	8.2	0.900	1.100	830.00
33	B39	0	345.00	1.030	-10.5	0.900	1.100	1000.00
34	B4	0	345.00	0.953	-9.9	0.900	1.100	0.00
35	B5	0	345.00	0.952	-8.7	0.900	1.100	0.00
36	B6	0	345.00	0.953	-8.0	0.900	1.100	0.00
37	B7	0	345.00	0.945	-10.4	0.900	1.100	0.00
38	B8	0	345.00	0.946	-10.9	0.900	1.100	0.00
39	B9	0	345.00	1.008	-10.7	0.900	1.100	0.00

Bus

	Q Gen [MVAR]	P Load [MW]	Q Load [MVAR]	P motor [MW]	Q motor [MVAR]	P shunt [MW]	Q shunt [MVAR]
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	7.50	88.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	320.00	153.00	0.00	0.00	0.00	0.00
8	0.00	329.00	32.30	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	158.00	30.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	628.00	103.00	0.00	0.00	0.00	0.00
14	0.00	274.00	115.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	247.50	84.60	0.00	0.00	0.00	0.00
17	0.00	308.60	-92.20	0.00	0.00	0.00	0.00
18	0.00	224.00	47.20	0.00	0.00	0.00	0.00
19	0.00	139.00	17.00	0.00	0.00	0.00	0.00
20	0.00	281.00	75.50	0.00	0.00	0.00	0.00
21	0.00	206.00	27.60	0.00	0.00	0.00	0.00
22	0.00	283.50	26.90	0.00	0.00	0.00	0.00
23	0.00	322.00	2.40	0.00	0.00	0.00	0.00
24	166.04	0.00	0.00	0.00	0.00	0.00	0.00
25	141.30	9.20	4.60	0.00	0.00	0.00	0.00
26	144.35	0.00	0.00	0.00	0.00	0.00	0.00
27	53.21	0.00	0.00	0.00	0.00	0.00	0.00
28	141.03	0.00	0.00	0.00	0.00	0.00	0.00
29	224.75	0.00	0.00	0.00	0.00	0.00	0.00
30	203.33	0.00	0.00	0.00	0.00	0.00	0.00
31	19.59	0.00	0.00	0.00	0.00	0.00	0.00
32	49.44	0.00	0.00	0.00	0.00	0.00	0.00
33	222.20	1104.00	250.00	0.00	0.00	0.00	0.00
34	0.00	500.00	184.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	0.00	233.80	84.00	0.00	0.00	0.00	0.00
38	0.00	522.00	176.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.00	0.00	0.00