Manufacturer: MAGNETEK Uncommon Power

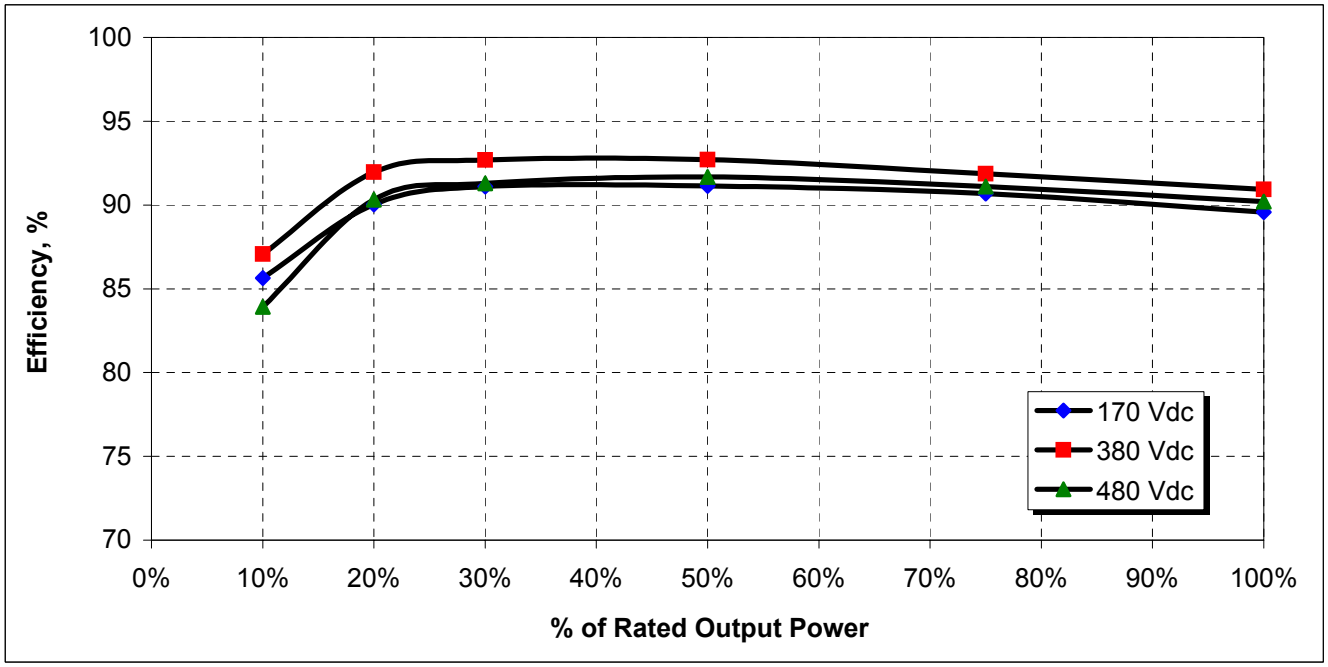
Model #: PVI-3000-I-OUTD-US-F (240V)

Rated Maximum Continuous Output Power @25°C: 3.000 kW  Night Tare Loss: 0.40 W
Rated Maximum Continuous Output Power @40°C: 3.000 kW  Night Tare Loss: 0.40 W

Vmin: 170 Vdc  Vnom: 380 Vdc  Vmax: 480 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.30 | 0.60 | 0.90 | 1.50 | 2.25 | 3.00 | Wtd |
| Vmin | 170 | 85.6 | 90.0 | 91.1 | 91.1 | 90.7 | 89.6 | 90.5 |
| Vnom | 380 | 87.1 | 92.0 | 92.7 | 92.7 | 91.9 | 90.9 | 91.9 |
| Vmax | 480 | 83.9 | 90.3 | 91.3 | 91.7 | 91.1 | 90.2 | 90.9 |

**CEC Efficiency = 91.0%**



Inverter Efficiency Data

Minimum of 5 samples required

| Specified | | Sample #1 | | | Sample #2 | | | Sample #3 | | | Sample #4 | | | Sample #5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Output Power | Input Voltage | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency |
| (% of rated) | (Vdc) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 289.417 | 169.4 | 85.626 | 289.45 | 169.47 | 85.636 | 289.3 | 169.52 | 85.592 | 289.32 | 169.4 | 85.597 | 289.4 | 169.45 | 85.621 |
| 20% | Vmin | 650.967 | 171.4 | 90.037 | 650.95 | 171.4 | 90.035 | 650.93 | 171.4 | 90.032 | 650.88 | 171.4 | 90.026 | 650.83 | 171.35 | 90.019 |
| 30% | Vmin | 957.617 | 170.17 | 91.115 | 957.52 | 170.17 | 91.106 | 957.33 | 170.17 | 91.088 | 957.32 | 170.18 | 91.086 | 957.4 | 170.2 | 91.094 |
| 50% | Vmin | 1375.77 | 170.28 | 91.111 | 1376.5 | 170.27 | 91.148 | 1376.5 | 170.23 | 91.151 | 1376.9 | 170.3 | 91.137 | 1377.3 | 170.28 | 91.150 |
| 75% | Vmin | 2138.05 | 172.88 | 90.679 | 2137.4 | 172.73 | 90.690 | 2136.6 | 172.63 | 90.670 | 2136.4 | 172.63 | 90.680 | 2136.2 | 172.83 | 90.671 |
| 100% | Vmin | 2871 | 172.65 | 89.565 | 2869.7 | 172.47 | 89.571 | 2869.2 | 172.38 | 89.578 | 2868.3 | 172.52 | 89.573 | 2867.1 | 172.35 | 89.570 |
| 10% | Vnom | 289.917 | 380.9 | 87.106 | 289.85 | 380.9 | 87.042 | 289.83 | 380.9 | 87.081 | 289.72 | 380.93 | 87.133 | 289.68 | 380.9 | 86.992 |
| 20% | Vnom | 648.467 | 377.88 | 91.938 | 649.92 | 378.6 | 91.948 | 650.05 | 379.25 | 91.945 | 649.45 | 379.18 | 91.969 | 650.82 | 379.67 | 91.945 |
| 30% | Vnom | 962.65 | 380.35 | 92.667 | 964.85 | 381.17 | 92.655 | 964.38 | 380.93 | 92.670 | 964.62 | 380.73 | 92.662 | 964.98 | 381.17 | 92.728 |
| 50% | Vnom | 1364.8 | 378.65 | 92.697 | 1364.6 | 378.47 | 92.675 | 1364.6 | 378.4 | 92.713 | 1364 | 378.28 | 92.727 | 1364.8 | 378.62 | 92.708 |
| 75% | Vnom | 2153.1 | 379.2 | 91.862 | 2154.2 | 379.43 | 91.864 | 2153.2 | 379.35 | 91.862 | 2153.3 | 379.57 | 91.851 | 2152.1 | 378.68 | 91.857 |
| 100% | Vnom | 2890.73 | 379.83 | 90.932 | 2886.6 | 379.25 | 90.922 | 2888.8 | 379.32 | 90.929 | 2885.3 | 379.37 | 90.929 | 2885.7 | 379.37 | 90.944 |
| 10% | Vmax | 291.2 | 480.3 | 83.919 | 291.38 | 480.3 | 83.972 | 291.22 | 480.3 | 83.924 | 291.12 | 480.3 | 83.895 | 291.2 | 480.3 | 83.919 |
| 20% | Vmax | 649.7 | 481.93 | 90.320 | 650.58 | 483.6 | 90.317 | 651.32 | 482.6 | 90.314 | 651.13 | 483.82 | 90.268 | 647.62 | 481.72 | 90.365 |
| 30% | Vmax | 948.133 | 481.95 | 91.255 | 947.63 | 481.72 | 91.265 | 945.93 | 481.33 | 91.218 | 946.8 | 482 | 91.287 | 947.67 | 481.85 | 91.327 |
| 50% | Vmax | 1414.17 | 483.37 | 91.680 | 1414.7 | 484.08 | 91.673 | 1410 | 482.38 | 91.666 | 1410.1 | 482.02 | 91.653 | 1413.1 | 483.68 | 91.648 |
| 75% | Vmax | 2134.4 | 479.6 | 91.084 | 2133.7 | 479.28 | 91.088 | 2131.1 | 479.12 | 91.093 | 2128.5 | 477.7 | 91.102 | 2121.2 | 477.07 | 91.171 |
| 100% | Vmax | 2893.47 | 479.87 | 90.261 | 2891.9 | 479.63 | 90.213 | 2894.1 | 480.33 | 90.209 | 2903.4 | 481.78 | 90.194 | 2895.5 | 480.57 | 90.221 |

| Specified | | Sample #6 | | | Sample #7 | | | Sample #8 | | | Sample #9 | | | Sample #10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Output Power | Input Voltage | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency | Output Power | Input Voltage | Efficiency |
| (% of rated) | (Vdc) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 289.667 | 169.43 | 85.700 | 289.88 | 169.4 | 85.764 | | | | | | | | | |
| 20% | Vmin | 650.967 | 171.4 | 90.037 | 650.82 | 171.4 | 90.016 | | | | | | | | | |
| 30% | Vmin | 957.567 | 170.2 | 91.110 | 956.9 | 170.17 | 91.047 | | | | | | | | | |
| 50% | Vmin | 1377.28 | 170.3 | 91.161 | 1377.5 | 170.33 | 91.172 | | | | | | | | | |
| 75% | Vmin | 2135.98 | 172.67 | 90.674 | 2135.6 | 172.52 | 90.666 | | | | | | | | | |
| 100% | Vmin | 2866.05 | 172.18 | 89.573 | 2866 | 172.05 | 89.581 | | | | | | | | | |
| 10% | Vnom | 289.75 | 380.9 | 87.056 | 289.83 | 380.92 | 87.037 | | | | | | | | | |
| 20% | Vnom | 648.433 | 378.15 | 91.912 | 650.32 | 379.15 | 92.004 | | | | | | | | | |
| 30% | Vnom | 962.983 | 380.05 | 92.713 | 963.95 | 380.48 | 92.673 | | | | | | | | | |
| 50% | Vnom | 1364.62 | 378.48 | 92.726 | 1363.6 | 377.95 | 92.727 | | | | | | | | | |
| 75% | Vnom | 2151.1 | 378.58 | 91.868 | 2155.1 | 379.45 | 91.875 | | | | | | | | | |
| 100% | Vnom | 2888 | 379.5 | 90.932 | 2888.8 | 379.85 | 90.927 | | | | | | | | | |
| 10% | Vmax | 291.167 | 480.3 | 83.910 | 291 | 480.3 | 83.862 | | | | | | | | | |
| 20% | Vmax | 649.017 | 480.98 | 90.371 | 646.17 | 478.78 | 90.331 | | | | | | | | | |
| 30% | Vmax | 948.317 | 481.68 | 91.302 | 946.85 | 481.25 | 91.351 | | | | | | | | | |
| 50% | Vmax | 1413 | 483.32 | 91.694 | 1409.8 | 482.38 | 91.676 | | | | | | | | | |
| 75% | Vmax | 2124.75 | 478.67 | 91.094 | 2132.3 | 479.37 | 91.096 | | | | | | | | | |
| 100% | Vmax | 2901.68 | 481.7 | 90.194 | 2899.4 | 481.57 | 90.201 | | | | | | | | | |