Manufacturer: Xantrex Technologies

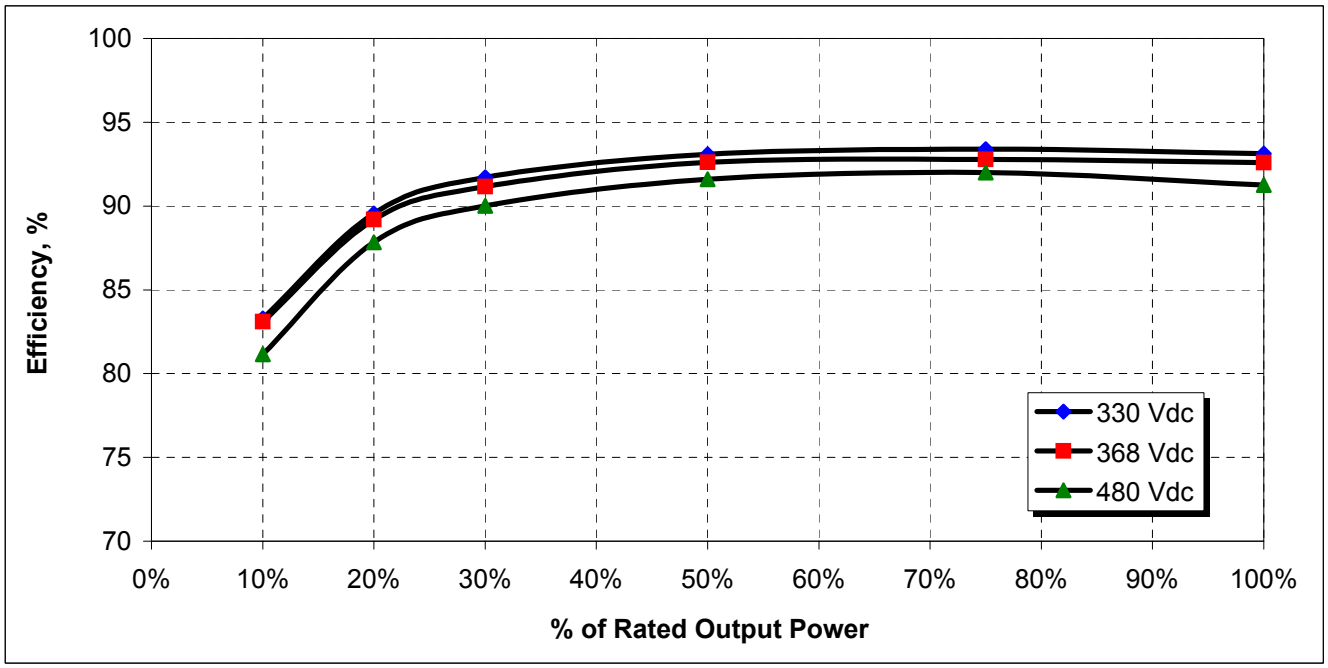
Model #: PV45-208- With 480 transformer

Rated Maximum Continuous Output Power: 45.21 kW  Night Tare Loss: 595.60 W

Vmin: 330 Vdc  Vnom: 368 Vdc  Vmax: 480 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 4.52 | 9.04 | 13.56 | 22.60 | 33.91 | 45.21 | Wtd |
| Vmin | 330 | 83.3 | 89.6 | 91.7 | 93.1 | 93.4 | 93.1 | 92.5 |
| Vnom | 368 | 83.1 | 89.2 | 91.2 | 92.6 | 92.8 | 92.6 | 92.0 |
| Vmax | 480 | 81.2 | 87.8 | 90.0 | 91.6 | 92.0 | 91.2 | 91.0 |

**CEC Efficiency = 92.0%**



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 | 4.656 | 330.23 | 83.260 | 4.68 | 330.23 | 83.330 | 4.657 | 330.23 | 83.290 | 4.662 | 330.23 | 83.300 | 4.663 | 330.23 | 83.320 |
| 20% | Vmin | 9.203 | 330.2 | 89.590 | 9.176 | 330.21 | 89.500 | 9.175 | 330.21 | 89.500 | 9.202 | 330.2 | 89.600 | 9.2 | 330.2 | 89.570 |
| 30% | Vmin | 13.763 | 330.18 | 91.700 | 13.776 | 330.17 | 91.740 | 13.746 | 330.16 | 91.680 | 13.784 | 330.17 | 91.770 | 13.753 | 330.16 | 91.690 |
| 50% | Vmin | 22.987 | 330.11 | 93.160 | 22.911 | 330.11 | 93.010 | 22.93 | 330.11 | 93.120 | 22.936 | 330.11 | 93.090 | 22.908 | 330.11 | 93.060 |
| 75% | Vmin | 33.673 | 330.98 | 93.330 | 33.705 | 330.66 | 93.410 | 33.687 | 330.02 | 93.430 | 33.605 | 330.01 | 93.340 | 33.696 | 330 | 93.440 |
| 100% | Vmin | 45.333 | 330.87 | 93.060 | 45.48 | 330.89 | 93.250 | 45.339 | 330.85 | 93.050 | 45.422 | 330.88 | 93.180 | 45.4 | 330.88 | 93.090 |
| 10% | Vnom | 4.801 | 365.55 | 83.390 | 4.838 | 368.55 | 83.120 | 4.82 | 368.55 | 83.100 | 4.831 | 368.55 | 83.060 | 4.798 | 368.56 | 82.950 |
| 20% | Vnom | 9.461 | 368.54 | 89.240 | 9.401 | 368.53 | 89.120 | 9.448 | 368.53 | 89.220 | 9.443 | 368.52 | 89.260 | 9.426 | 368.53 | 89.160 |
| 30% | Vnom | 14.03 | 368.49 | 91.180 | 14.06 | 368.49 | 91.160 | 14.057 | 368.49 | 91.180 | 14.019 | 368.38 | 91.030 | 14.099 | 368.49 | 91.260 |
| 50% | Vnom | 22.87 | 368.48 | 92.670 | 22.751 | 368.45 | 92.570 | 22.801 | 368.46 | 92.580 | 22.788 | 368.46 | 92.610 | 22.768 | 368.45 | 92.570 |
| 75% | Vnom | 34.241 | 368.32 | 92.850 | 34.223 | 368.32 | 92.760 | 34.184 | 368.31 | 92.740 | 34.15 | 368.3 | 92.730 | 34.223 | 368.33 | 92.770 |
| 100% | Vnom | 45.406 | 368.26 | 92.670 | 45.33 | 368.26 | 92.490 | 45.498 | 368.25 | 92.640 | 45.328 | 368.23 | 92.350 | 45.561 | 368.27 | 92.690 |
| 10% | Vmax | 4.779 | 480.65 | 81.040 | 4.829 | 480.67 | 81.260 | 4.786 | 480.66 | 81.090 | 4.811 | 480.67 | 81.140 | 4.806 | 480.68 | 81.230 |
| 20% | Vmax | 9.421 | 480.66 | 87.780 | 9.492 | 480.67 | 87.880 | 9.428 | 480.66 | 87.820 | 9.445 | 480.67 | 87.810 | 9.449 | 480.66 | 87.860 |
| 30% | Vmax | 14.074 | 480.62 | 90.170 | 14.066 | 480.6 | 89.950 | 14.154 | 480.63 | 90.260 | 14.055 | 480.62 | 89.800 | 14.094 | 480.66 | 90.070 |
| 50% | Vmax | 22.838 | 480.63 | 91.570 | 22.989 | 480.6 | 91.630 | 22.844 | 480.63 | 91.550 | 22.966 | 480.6 | 91.610 | 22.849 | 480.62 | 91.580 |
| 75% | Vmax | 34.255 | 480.51 | 91.930 | 34.457 | 480..55 | 92.070 | 34.338 | 480..53 | 91.980 | 34.343 | 480.52 | 92.000 | 34.397 | 480.53 | 92.010 |
| 100% | Vmax | 46.043 | 479.42 | 91.090 | 46.316 | 479.46 | 91.350 | 46.024 | 479.44 | 91.210 | 46.293 | 479.49 | 91.400 | 46.041 | 479.4 | 91.340 |

| 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 | 4.654 | 330.23 | 83.160 | 4.659 | 330.22 | 83.340 | | | | | | | | | |
| 20% | Vmin | 9.187 | 330.2 | 89.550 | 9.196 | 330.2 | 89.590 | | | | | | | | | |
| 30% | Vmin | 13.783 | 330.18 | 91.730 | 13.752 | 330.18 | 91.690 | | | | | | | | | |
| 50% | Vmin | 22.969 | 330.11 | 93.160 | 22.907 | 330.09 | 93.040 | | | | | | | | | |
| 75% | Vmin | 33.629 | 330 | 93.350 | 33.687 | 330.01 | 93.420 | | | | | | | | | |
| 100% | Vmin | 45.318 | 330.88 | 93.100 | 45.47 | 330.88 | 93.200 | | | | | | | | | |
| 10% | Vnom | 4.816 | 368.55 | 82.970 | 4.815 | 368.56 | 83.070 | | | | | | | | | |
| 20% | Vnom | 9.447 | 368.53 | 89.210 | 9.395 | 368.53 | 89.110 | | | | | | | | | |
| 30% | Vnom | 14.022 | 368.49 | 91.040 | 14.093 | 368.5 | 91.220 | | | | | | | | | |
| 50% | Vnom | 22.852 | 368.46 | 92.680 | 22.739 | 368.45 | 92.560 | | | | | | | | | |
| 75% | Vnom | 34.098 | 368.32 | 92.660 | 34.266 | 368.33 | 92.920 | | | | | | | | | |
| 100% | Vnom | 45.332 | 368.27 | 92.490 | 45.596 | 368.27 | 92.780 | | | | | | | | | |
| 10% | Vmax | 4.829 | 480.67 | 81.040 | 4.779 | 480.69 | 81.290 | | | | | | | | | |
| 20% | Vmax | 9.42 | 480.66 | 87.790 | 9.48 | 480.66 | 87.880 | | | | | | | | | |
| 30% | Vmax | 14.084 | 480.62 | 89.940 | 14.055 | 480.62 | 89.950 | | | | | | | | | |
| 50% | Vmax | 22.973 | 480.61 | 91.630 | 22.885 | 480.62 | 91.620 | | | | | | | | | |
| 75% | Vmax | 34.246 | 480.51 | 91.940 | 34.43 | 480.54 | 92.000 | | | | | | | | | |
| 100% | Vmax | 46.172 | 479.47 | 91.290 | 46.06 | 479.43 | 91.060 | | | | | | | | | |