Manufacturer: SOLECTRIA RENEWABLES LLC

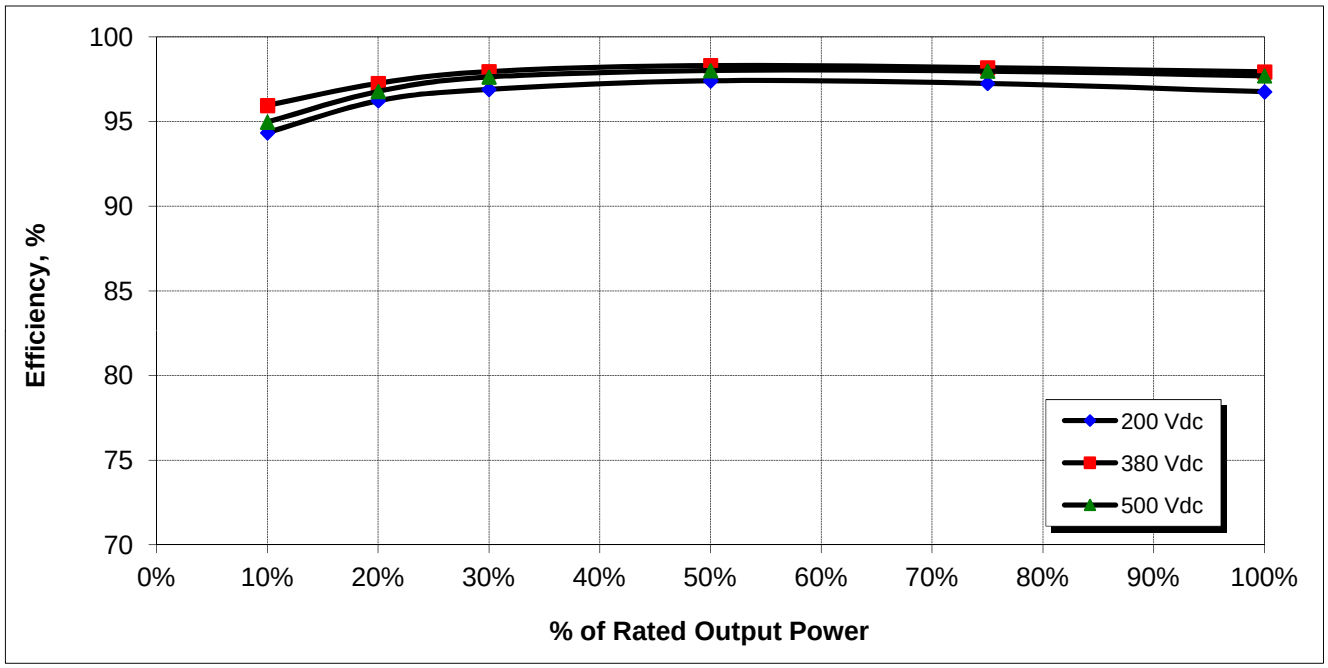
Model #: PVI-6600TL (240V)

Rated Maximum Continuous Output Power: 6.60 kW  Night Tare Loss: 1.45 W

Vmin: 200 Vdc  Vnom: 380 Vdc  Vmax: 500 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.66 | 1.32 | 1.98 | 3.30 | 4.95 | 6.60 | Wtd |
| Vmin | 200 | 94.3 | 96.2 | 96.9 | 97.4 | 97.2 | 96.8 | 97.0 |
| Vnom | 380 | 96.0 | 97.3 | 97.9 | 98.3 | 98.2 | 97.9 | 98.0 |
| Vmax | 500 | 95.0 | 96.8 | 97.6 | 98.0 | 98.0 | 97.7 | 97.7 |

**CEC Efficiency = 97.5%**



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) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 653.69 | 201.12 | 94.359 | 653.9 | 201.12 | 94.341 | 653.6 | 201.11 | 94.337 | 653.5 | 201.11 | 94.312 | 653.6 | 201.11 | 94.334 |
| 20% | Vmin | 1330 | 201.01 | 96.226 | 1330 | 201.01 | 96.223 | 1329 | 201.01 | 96.220 | 1328 | 201.01 | 96.216 | 1328 | 201 | 96.213 |
| 30% | Vmin | 1998.8 | 200.85 | 96.896 | 1997 | 200.85 | 96.898 | 1998 | 200.85 | 96.892 | 1998 | 200.86 | 96.888 | 1998 | 200.85 | 96.896 |
| 50% | Vmin | 3361.9 | 200.61 | 97.419 | 3362 | 200.61 | 97.404 | 3361 | 200.61 | 97.402 | 3361 | 200.62 | 97.405 | 3360 | 200.62 | 97.404 |
| 75% | Vmin | 4969.1 | 200.35 | 97.241 | 4969 | 200.36 | 97.248 | 4968 | 200.36 | 97.247 | 4967 | 200.36 | 97.249 | 4969 | 200.36 | 97.255 |
| 100% | Vmin | 6672.2 | 200.86 | 96.755 | 6695 | 200.87 | 96.749 | 6695 | 200.87 | 96.748 | 6690 | 200.86 | 96.746 | 6660 | 200.83 | 96.770 |
| 10% | Vnom | 650.88 | 380.05 | 95.954 | 654.6 | 380.05 | 95.967 | 655.4 | 380.05 | 95.964 | 655.3 | 380.04 | 95.972 | 654.3 | 380.05 | 95.943 |
| 20% | Vnom | 1325.3 | 379.9 | 97.258 | 1320 | 379.89 | 97.270 | 1317 | 379.9 | 97.247 | 1318 | 379.9 | 97.251 | 1322 | 379.89 | 97.251 |
| 30% | Vnom | 2021.4 | 379.95 | 97.871 | 2028 | 379.96 | 97.930 | 2037 | 379.96 | 97.987 | 2039 | 379.96 | 97.993 | 2038 | 379.95 | 97.997 |
| 50% | Vnom | 3343.8 | 380.01 | 98.311 | 3358 | 380.02 | 98.315 | 3369 | 380.02 | 98.314 | 3371 | 380.01 | 98.307 | 3365 | 380.02 | 98.309 |
| 75% | Vnom | 4873 | 379.97 | 98.167 | 4866 | 379.97 | 98.170 | 4871 | 379.97 | 98.172 | 4891 | 379.96 | 98.168 | 4906 | 379.96 | 98.167 |
| 100% | Vnom | 6628.7 | 379.76 | 97.936 | 6643 | 379.77 | 97.930 | 6674 | 379.77 | 97.925 | 6685 | 379.77 | 97.925 | 6683 | 379.77 | 97.926 |
| 10% | Vmax | 644.7 | 499.61 | 94.956 | 644.2 | 499.61 | 94.938 | 645 | 499.61 | 94.967 | 647.8 | 499.61 | 94.967 | 649.8 | 499.61 | 94.990 |
| 20% | Vmax | 1342.5 | 499.35 | 96.797 | 1344 | 499.35 | 96.795 | 1344 | 499.35 | 96.784 | 1340 | 499.34 | 96.760 | 1335 | 499.34 | 96.763 |
| 30% | Vmax | 2038.1 | 499.42 | 97.615 | 2030 | 499.41 | 97.610 | 2022 | 499.4 | 97.637 | 2022 | 499.41 | 97.640 | 2025 | 499.41 | 97.636 |
| 50% | Vmax | 3344.5 | 499.59 | 98.006 | 3339 | 499.59 | 98.012 | 3340 | 499.6 | 98.006 | 3349 | 499.6 | 98.010 | 3362 | 499.6 | 98.019 |
| 75% | Vmax | 4976.9 | 499.51 | 97.979 | 4980 | 499.5 | 97.974 | 4974 | 499.49 | 97.977 | 4950 | 499.49 | 97.981 | 4936 | 499.5 | 97.983 |
| 100% | Vmax | 6694.8 | 499.36 | 97.696 | 6677 | 499.36 | 97.700 | 6648 | 499.36 | 97.700 | 6634 | 499.36 | 97.702 | 6631 | 499.36 | 97.702 |

| 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 | 653.6 | 201.11 | 94.356 | 654 | 201.11 | 94.364 | | | | | | | | | |
| 20% | Vmin | 1328 | 201 | 96.223 | 1328 | 201.01 | 96.224 | | | | | | | | | |
| 30% | Vmin | 1998.3 | 200.86 | 96.901 | 1998 | 200.86 | 96.901 | | | | | | | | | |
| 50% | Vmin | 3360.5 | 200.61 | 97.416 | 3360 | 200.61 | 97.413 | | | | | | | | | |
| 75% | Vmin | 4968.3 | 200.36 | 97.251 | 4968 | 200.36 | 97.256 | | | | | | | | | |
| 100% | Vmin | 6639.1 | 200.81 | 96.773 | 6642 | 200.79 | 96.771 | | | | | | | | | |
| 10% | Vnom | 650.71 | 380.05 | 95.935 | 650.3 | 380.05 | 95.938 | | | | | | | | | |
| 20% | Vnom | 1327 | 379.89 | 97.246 | 1328 | 379.9 | 97.245 | | | | | | | | | |
| 30% | Vnom | 2031 | 379.95 | 97.946 | 2025 | 379.95 | 97.887 | | | | | | | | | |
| 50% | Vnom | 3351 | 380.02 | 98.316 | 3342 | 380.01 | 98.318 | | | | | | | | | |
| 75% | Vnom | 4910.4 | 379.96 | 98.169 | 4905 | 379.96 | 98.171 | | | | | | | | | |
| 100% | Vnom | 6668.8 | 379.77 | 97.932 | 6637 | 379.78 | 97.936 | | | | | | | | | |
| 10% | Vmax | 651.06 | 499.61 | 94.995 | 649.8 | 499.61 | 94.981 | | | | | | | | | |
| 20% | Vmax | 1335.3 | 499.34 | 96.790 | 1335 | 499.34 | 96.762 | | | | | | | | | |
| 30% | Vmax | 2033.4 | 499.42 | 97.634 | 2039 | 499.41 | 97.624 | | | | | | | | | |
| 50% | Vmax | 3369.1 | 499.59 | 98.016 | 3364 | 499.59 | 98.013 | | | | | | | | | |
| 75% | Vmax | 4940.1 | 499.5 | 97.980 | 4947 | 499.5 | 97.982 | | | | | | | | | |
| 100% | Vmax | 6649.6 | 499.36 | 97.697 | 6685 | 499.36 | 97.695 | | | | | | | | | |