Manufacturer: SunPower Corp. (Original Mfr. - PV Powered LLC)

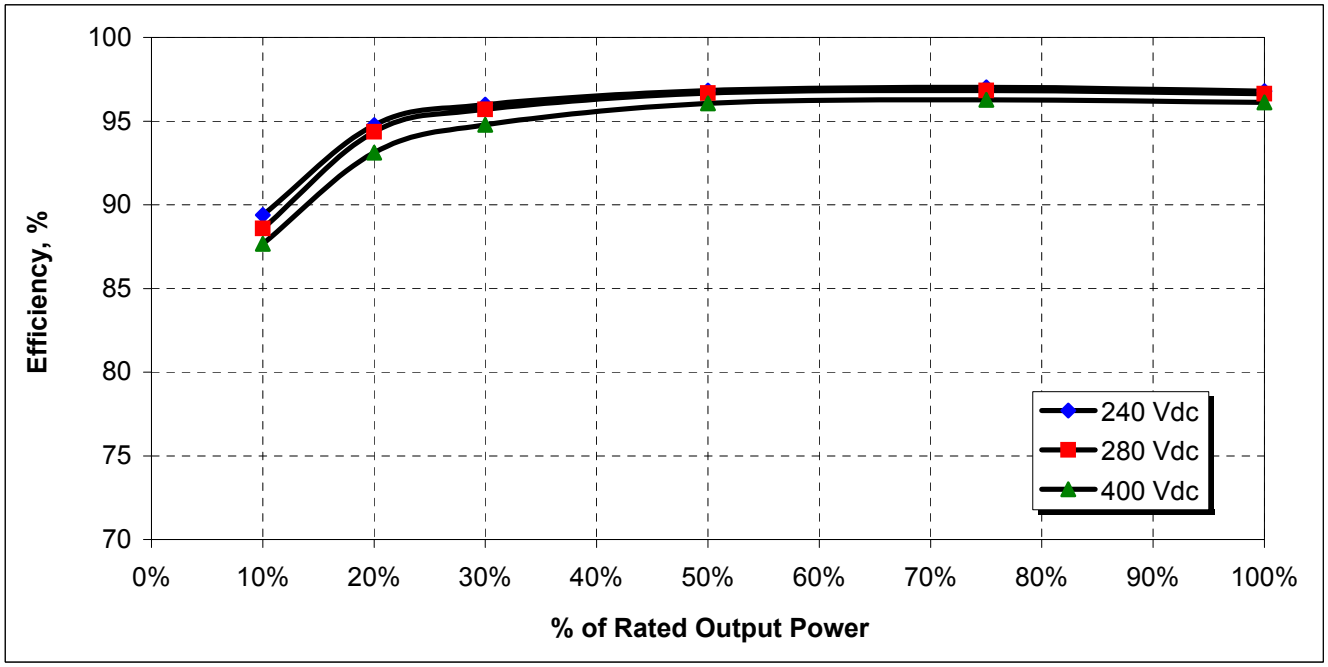
Model #: SPR-5200

Rated Maximum Continuous Output Power @40°C: 5.200 kW  Night Tare Loss: 4 W

Vmin: 240 Vdc  Vnom: 280 Vdc  Vmax: 400 Vdc

| Input Voltage (Vdc) | | Power Level (%; kW) 10% | 20% | 30% | 50% | 75% | 100% | Wtd |
|---|---|---|---|---|---|---|---|---|
| Vmin | 240 | 89.4 | 94.8 | 96.0 | 96.8 | 97.0 | 96.8 | 96.4 |
| Vnom | 280 | 88.6 | 94.4 | 95.7 | 96.7 | 96.8 | 96.6 | 96.2 |
| Vmax | 400 | 87.7 | 93.1 | 94.8 | 96.1 | 96.3 | 96.1 | 95.5 |

**CEC Efficiency = 96.0%**



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 | 460.89 | 243.16 | 89.389 | 460.51 | 242.9 | 89.395 | 460.55 | 242.97 | 89.323 | 460.77 | 242.62 | 89.374 | 461.12 | 242.86 | 89.411 |
| 20% | Vmin | 1045.9 | 241.95 | 94.769 | 1047.0 | 242.35 | 94.777 | 1047.5 | 242.57 | 94.781 | 1047.4 | 242.49 | 94.758 | 1045.6 | 242.18 | 94.783 |
| 30% | Vmin | 1500.3 | 240.85 | 96.001 | 1503.0 | 240.97 | 95.98 | 1504.2 | 241.4 | 96.04 | 1500.8 | 241.28 | 95.936 | 1501.8 | 241.33 | 95.994 |
| 50% | Vmin | 2411.9 | 242.17 | 96.857 | 2416.5 | 242.41 | 96.861 | 2414.0 | 242.17 | 96.807 | 2408.6 | 241.89 | 96.838 | 2408.9 | 241.85 | 96.796 |
| 75% | Vmin | 3718.0 | 241.93 | 97.016 | 3721.5 | 241.96 | 97.043 | 3717.8 | 241.8 | 97.026 | 3716.2 | 241.9 | 97.038 | 3717.3 | 241.99 | 96.989 |
| 100% | Vmin | 4988.6 | 241.23 | 96.804 | 4979.4 | 241.01 | 96.795 | 4980.8 | 240.98 | 96.777 | 4988.5 | 241.1 | 96.787 | 4974.6 | 240.43 | 96.785 |
| 10% | Vnom | 456.54 | 281.16 | 88.656 | 456.27 | 280.87 | 88.604 | 455.87 | 280.71 | 88.661 | 455.94 | 280.85 | 88.512 | 455.36 | 281 | 88.506 |
| 20% | Vnom | 1037.7 | 281.4 | 94.362 | 1038.7 | 281.52 | 94.342 | 1040.7 | 282.51 | 94.4 | 1037.8 | 281.8 | 94.304 | 1039.6 | 282.12 | 94.358 |
| 30% | Vnom | 1497.9 | 280.52 | 95.716 | 1497.8 | 280.46 | 95.658 | 1496.6 | 280.42 | 95.711 | 1498.6 | 280.55 | 95.686 | 1498.4 | 280.64 | 95.737 |
| 50% | Vnom | 2538.2 | 282.96 | 96.69 | 2540.2 | 283.14 | 96.69 | 2536.1 | 282.89 | 96.674 | 2533.6 | 282.35 | 96.658 | 2534.6 | 282.59 | 96.7 |
| 75% | Vnom | 3674.0 | 281.96 | 96.855 | 3673.8 | 281.98 | 96.787 | 3665.4 | 281.56 | 96.794 | 3664.6 | 281.2 | 96.863 | 3685.7 | 283.37 | 96.824 |
| 100% | Vnom | 4971.7 | 280.65 | 96.626 | 4980.5 | 281.06 | 96.613 | 4978.9 | 280.91 | 96.65 | 4969.1 | 280.77 | 96.607 | 4968.3 | 280.69 | 96.624 |
| 10% | Vmax | 506.82 | 400.51 | 87.565 | 506.91 | 400.87 | 87.659 | 507.79 | 401.19 | 87.606 | 506.7 | 400.59 | 87.64 | 506.35 | 400.05 | 87.884 |
| 20% | Vmax | 1024.6 | 402.15 | 93.119 | 1025.5 | 402.49 | 93.149 | 1024.5 | 402.18 | 93.118 | 1026.0 | 402.54 | 93.082 | 1026.7 | 402.5 | 93.095 |
| 30% | Vmax | 1488.6 | 401.09 | 94.783 | 1490.5 | 401.27 | 94.757 | 1490.6 | 401.02 | 94.794 | 1487.3 | 400.66 | 94.713 | 1489.9 | 401.01 | 94.827 |
| 50% | Vmax | 2595.5 | 402.51 | 96.066 | 2596.3 | 402.52 | 96.024 | 2597.0 | 402.88 | 96.053 | 2593.4 | 402.82 | 96.089 | 2593.5 | 402.52 | 96.133 |
| 75% | Vmax | 3668.6 | 400.01 | 96.24 | 3673.4 | 400.19 | 96.274 | 3676.8 | 400.44 | 96.257 | 3670.4 | 399.83 | 96.277 | 3661.1 | 398.97 | 96.275 |
| 100% | Vmax | 4978.2 | 403.91 | 96.126 | 4963.2 | 403.04 | 96.131 | 4989.3 | 405.42 | 96.126 | 4996.5 | 405.63 | 96.116 | 4985.6 | 404.8 | 96.106 |

| 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 | 460.77 | 242.66 | 89.454 | | | | | | | | | | | | |
| 20% | Vmin | 1045.3 | 242.05 | 94.744 | | | | | | | | | | | | |
| 30% | Vmin | 1502.4 | 241.48 | 95.972 | | | | | | | | | | | | |
| 50% | Vmin | 2407.0 | 241.25 | 96.836 | | | | | | | | | | | | |
| 75% | Vmin | 3713.2 | 241.66 | 97.014 | | | | | | | | | | | | |
| 100% | Vmin | 4980.2 | 240.74 | 96.796 | | | | | | | | | | | | |
| 10% | Vnom | 455.04 | 279.93 | 88.56 | | | | | | | | | | | | |
| 20% | Vnom | 1038.9 | 281.94 | 94.349 | | | | | | | | | | | | |
| 30% | Vnom | 1495.7 | 279.81 | 95.63 | | | | | | | | | | | | |
| 50% | Vnom | 2538.3 | 282.91 | 96.664 | | | | | | | | | | | | |
| 75% | Vnom | 3701.7 | 284.25 | 96.801 | | | | | | | | | | | | |
| 100% | Vnom | 4974.1 | 280.83 | 96.643 | | | | | | | | | | | | |
| 10% | Vmax | 506.09 | 399.85 | 87.61 | | | | | | | | | | | | |
| 20% | Vmax | 1025.2 | 402.06 | 93.168 | | | | | | | | | | | | |
| 30% | Vmax | 1486.3 | 400.67 | 94.768 | | | | | | | | | | | | |
| 50% | Vmax | 2597.0 | 402.96 | 96.046 | | | | | | | | | | | | |
| 75% | Vmax | 3664.9 | 399.18 | 96.292 | | | | | | | | | | | | |
| 100% | Vmax | 4984.5 | 404.78 | 96.111 | | | | | | | | | | | | |