Manufacturer: PV Powered

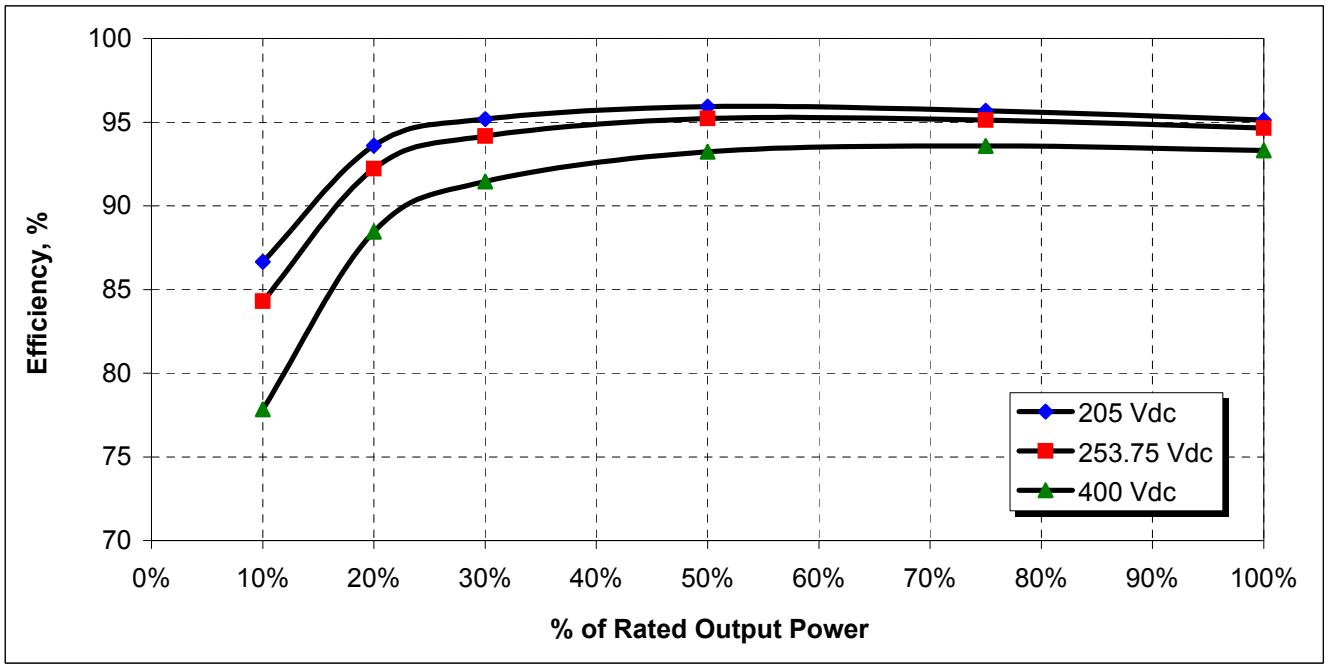
Model #: SPR2900-208

Rated Maximum Continuous Output Power: 2.90 kW  Night Tare Loss: 3.00 W

Vmin: 205 Vdc  Vnom: 253.75 Vdc  Vmax: 400 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.29 | 0.58 | 0.87 | 1.45 | 2.18 | 2.90 | Wtd |
| Vmin | 205 | 86.6 | 93.6 | 95.2 | 95.9 | 95.7 | 95.1 | 95.2 |
| Vnom | 253.75 | 84.3 | 92.2 | 94.2 | 95.2 | 95.1 | 94.7 | 94.4 |
| Vmax | 400 | 77.8 | 88.4 | 91.5 | 93.2 | 93.6 | 93.3 | 92.3 |

**CEC Efficiency = 94.0%**



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 | 263.72 | 207.17 | 86.666 | 263.55 | 207.16 | 86.666 | 263.24 | 206.89 | 86.657 | 263.64 | 207.06 | 86.618 | 263.17 | 207.1 | 86.636 |
| 20% | Vmin | 613.37 | 207.44 | 93.592 | 613.18 | 207.51 | 93.6 | 613.27 | 207.41 | 93.616 | 613.24 | 207.57 | 93.605 | 613.21 | 207.59 | 93.597 |
| 30% | Vmin | 922.11 | 206.93 | 95.133 | 922.1 | 206.87 | 95.177 | 921.4 | 206.87 | 95.220 | 922.15 | 206.89 | 95.165 | 921.25 | 206.76 | 95.220 |
| 50% | Vmin | 1497.4 | 205.64 | 95.937 | 1496 | 205.47 | 95.933 | 1496.8 | 205.6 | 95.937 | 1496 | 205.41 | 95.931 | 1494.9 | 205.16 | 95.919 |
| 75% | Vmin | 2187.5 | 206.64 | 95.670 | 2188.5 | 206.58 | 95.693 | 2180.7 | 205.89 | 95.662 | 2180.2 | 205.87 | 95.697 | 2195.2 | 207.58 | 95.709 |
| 100% | Vmin | 2935.6 | 206.26 | 95.136 | 2935 | 206.33 | 95.128 | 2934.4 | 206.14 | 95.139 | 2936.2 | 206.33 | 95.123 | 2934.9 | 206.08 | 95.136 |
| 10% | Vnom | 266.41 | 253.75 | 84.256 | 266.62 | 253.89 | 84.334 | 266.7 | 253.99 | 84.329 | 266.88 | 253.88 | 84.298 | 266.33 | 254.15 | 84.311 |
| 20% | Vnom | 616.15 | 256.52 | 92.2 | 616.05 | 256.48 | 92.224 | 615.13 | 256.23 | 92.199 | 615.77 | 256.35 | 92.257 | 615.73 | 256.17 | 92.245 |
| 30% | Vnom | 926.33 | 256.39 | 94.148 | 926.34 | 256.54 | 94.166 | 926.46 | 256.47 | 94.177 | 926.22 | 256.51 | 94.148 | 926.34 | 256.69 | 94.170 |
| 50% | Vnom | 1505.9 | 254.57 | 95.204 | 1506.5 | 254.73 | 95.229 | 1505.9 | 254.75 | 95.212 | 1507.3 | 255.03 | 95.192 | 1506.1 | 254.71 | 95.235 |
| 75% | Vnom | 2199.1 | 255.12 | 95.139 | 2199 | 255.14 | 95.159 | 2199.9 | 255.31 | 95.118 | 2199.2 | 255.21 | 95.121 | 2197.7 | 254.95 | 95.115 |
| 100% | Vnom | 2954.8 | 255.7 | 94.643 | 2953.8 | 255.59 | 94.658 | 2953.3 | 255.4 | 94.660 | 2953.9 | 255.48 | 94.669 | 2954.4 | 255.64 | 94.631 |
| 10% | Vmax | 265.49 | 401.86 | 77.811 | 265.23 | 402.04 | 77.786 | 265.42 | 401.72 | 77.827 | 265.25 | 401.74 | 77.936 | 265.22 | 401.5 | 77.849 |
| 20% | Vmax | 606.49 | 403.75 | 88.429 | 606.76 | 403.71 | 88.445 | 606.89 | 403.68 | 88.453 | 606.82 | 403.2 | 88.435 | 607.03 | 403.34 | 88.473 |
| 30% | Vmax | 920.03 | 399.83 | 91.417 | 920.04 | 399.85 | 91.438 | 919.63 | 399.96 | 91.465 | 918.92 | 399.66 | 91.459 | 919.93 | 399.9 | 91.474 |
| 50% | Vmax | 1500.5 | 401.34 | 93.162 | 1499.4 | 401.25 | 93.242 | 1500.6 | 401.29 | 93.255 | 1499.5 | 401.35 | 93.252 | 1500.2 | 401.57 | 93.215 |
| 75% | Vmax | 2201.7 | 401.02 | 93.586 | 2201.9 | 401.03 | 93.565 | 2202.5 | 401.18 | 93.573 | 2203.6 | 401.39 | 93.547 | 2199.7 | 400.62 | 93.566 |
| 100% | Vmax | 2953.2 | 400.73 | 93.301 | 2952.7 | 400.67 | 93.315 | 2953.7 | 400.78 | 93.302 | 2953.3 | 400.69 | 93.298 | 2952.6 | 400.53 | 93.309 |

| 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 | | | | | | | | | | | | | | | |
| 20% | Vmin | | | | | | | | | | | | | | | |
| 30% | Vmin | | | | | | | | | | | | | | | |
| 50% | Vmin | | | | | | | | | | | | | | | |
| 75% | Vmin | | | | | | | | | | | | | | | |
| 100% | Vmin | | | | | | | | | | | | | | | |
| 10% | Vnom | | | | | | | | | | | | | | | |
| 20% | Vnom | | | | | | | | | | | | | | | |
| 30% | Vnom | | | | | | | | | | | | | | | |
| 50% | Vnom | | | | | | | | | | | | | | | |
| 75% | Vnom | | | | | | | | | | | | | | | |
| 100% | Vnom | | | | | | | | | | | | | | | |
| 10% | Vmax | | | | | | | | | | | | | | | |
| 20% | Vmax | | | | | | | | | | | | | | | |
| 30% | Vmax | | | | | | | | | | | | | | | |
| 50% | Vmax | | | | | | | | | | | | | | | |
| 75% | Vmax | | | | | | | | | | | | | | | |
| 100% | Vmax | | | | | | | | | | | | | | | |