Manufacturer: Beijing Kinglong New Energy Technology Co., Ltd.

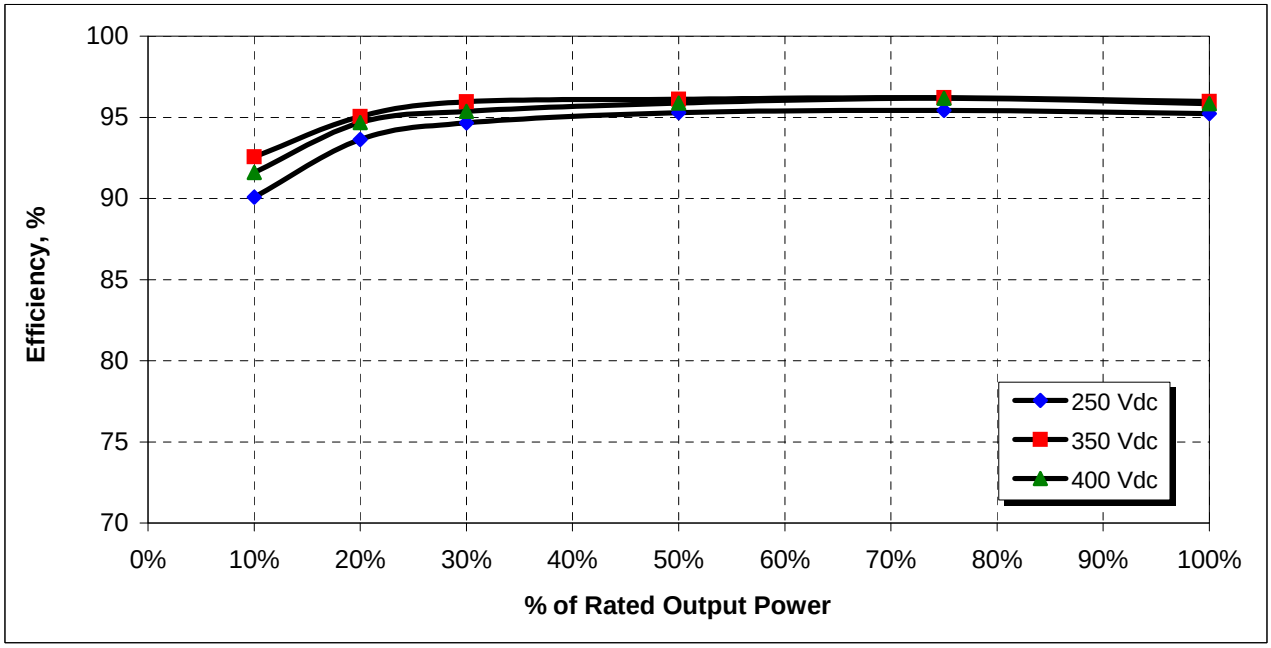
Model #: Sunteams 2000 (208 Vac)

Rated Maximum Continuous Output Power: 2.00 kW  Night Tare Loss: 0.13 W

Vmin: 250 Vdc  Vnom: 350 Vdc  Vmax: 400 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 0.20 | 0.40 | 0.60 | 1.00 | 1.50 | 2.00 | Wtd |
| Vmin | 250 | 90.1 | 93.6 | 94.7 | 95.3 | 95.4 | 95.2 | 95.0 |
| Vnom | 350 | 92.6 | 95.0 | 96.0 | 96.1 | 96.2 | 96.0 | 95.9 |
| Vmax | 400 | 91.6 | 94.7 | 95.4 | 95.9 | 96.2 | 95.8 | 95.7 |

**CEC Efficiency = 95.5%**



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) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) |
| 10% | Vmin | 0.19046 | 257.66 | 90.317 | 0.19 | 246.44 | 89.913 | 0.1898 | 251.68 | 89.969 | 0.1907 | 256.12 | 90.292 | 0.1896 | 255.15 | 89.952 |
| 20% | Vmin | 0.40741 | 249.64 | 93.480 | 0.4087 | 250.83 | 93.680 | 0.408 | 250.58 | 93.641 | 0.4087 | 257.68 | 93.673 | 0.4078 | 253.66 | 93.700 |
| 30% | Vmin | 0.61086 | 255.2 | 94.632 | 0.6113 | 257.58 | 94.661 | 0.6115 | 255.11 | 94.673 | 0.6106 | 254.77 | 94.653 | 0.6116 | 257.2 | 94.633 |
| 50% | Vmin | 0.99904 | 256.47 | 95.291 | 0.9994 | 255.6 | 95.299 | 0.9995 | 254.35 | 95.332 | 0.9988 | 254.34 | 95.283 | 0.9986 | 254.24 | 95.234 |
| 75% | Vmin | 1.49882 | 254.86 | 95.422 | 1.4967 | 250.64 | 95.369 | 1.4991 | 255.92 | 95.434 | 1.4987 | 252.81 | 95.441 | 1.498 | 252.32 | 95.410 |
| 100% | Vmin | 1.97895 | 255.7 | 95.282 | 1.9661 | 255.07 | 94.803 | 1.9785 | 255.06 | 95.559 | 1.979 | 253.08 | 95.402 | 1.972 | 254.87 | 95.074 |
| 10% | Vnom | 0.19393 | 353.99 | 92.216 | 0.1964 | 353.08 | 93.203 | 0.1951 | 352.2 | 92.590 | 0.1936 | 352.91 | 92.131 | 0.1949 | 354.74 | 92.637 |
| 20% | Vnom | 0.4057 | 349.02 | 94.776 | 0.4069 | 350.14 | 94.939 | 0.4075 | 346.09 | 94.977 | 0.4095 | 354.44 | 95.549 | 0.4072 | 350.23 | 94.967 |
| 30% | Vnom | 0.62191 | 349.12 | 96.289 | 0.6151 | 350.04 | 95.234 | 0.6224 | 354.44 | 96.385 | 0.6206 | 354.12 | 96.096 | 0.6185 | 354.07 | 95.799 |
| 50% | Vnom | 1.00097 | 354.21 | 96.053 | 1.0009 | 352.25 | 95.990 | 1.0026 | 352.72 | 96.136 | 1.0044 | 352.49 | 96.322 | 1.0014 | 354.06 | 96.051 |
| 75% | Vnom | 1.51625 | 353.26 | 96.167 | 1.5177 | 350.33 | 96.302 | 1.5163 | 352.07 | 96.193 | 1.5152 | 353.58 | 96.112 | 1.5174 | 353.92 | 96.263 |
| 100% | Vnom | 2.00557 | 352.22 | 96.070 | 2.002 | 353.06 | 95.870 | 2.0026 | 352.98 | 95.954 | 2.0024 | 353.04 | 95.914 | 2.0055 | 352.46 | 96.047 |
| 10% | Vmax | 0.19235 | 391.79 | 91.601 | 0.1936 | 395.43 | 92.394 | 0.1926 | 406 | 91.894 | 0.1894 | 412.97 | 90.611 | 0.1912 | 413.7 | 91.465 |
| 20% | Vmax | 0.40508 | 404.41 | 94.725 | 0.4026 | 406.94 | 94.137 | 0.4047 | 407.74 | 94.646 | 0.4059 | 407.55 | 94.932 | 0.4059 | 407.82 | 94.970 |
| 30% | Vmax | 0.60333 | 403.21 | 95.423 | 0.603 | 401.13 | 95.306 | 0.605 | 400.76 | 95.758 | 0.603 | 403.3 | 95.445 | 0.6005 | 401.47 | 94.939 |
| 50% | Vmax | 0.99883 | 400.44 | 96.023 | 0.9924 | 403.61 | 95.498 | 0.9998 | 402.66 | 96.147 | 0.9996 | 402.44 | 96.084 | 0.9941 | 399.43 | 95.595 |
| 75% | Vmax | 1.51282 | 401.05 | 96.189 | 1.5123 | 400.72 | 96.160 | 1.5121 | 399.13 | 96.083 | 1.5146 | 399.66 | 96.240 | 1.5136 | 398.58 | 96.188 |
| 100% | Vmax | 2.00223 | 397.45 | 96.024 | 1.9981 | 397.67 | 95.816 | 1.9964 | 400.18 | 95.727 | 1.9988 | 396.29 | 95.841 | 1.9979 | 398.15 | 95.826 |

| 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) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (Vdc) | (%) | (kW) | (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 | | | | | | | | | | | | | | | |