Manufacturer: GreenVolts

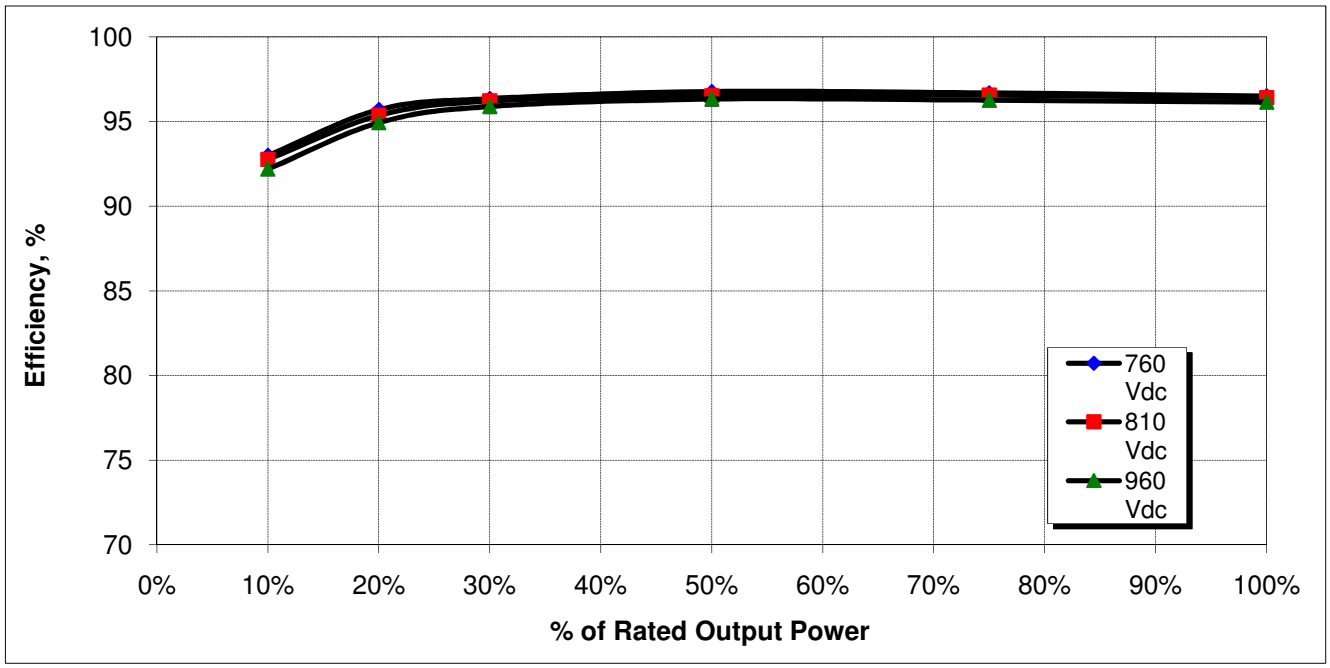
Model #: GV-SCP001

Rated Maximum Continuous Output Power: 16.00 kW  Night Tare Loss: 85.00 W

Vmin: 760 Vdc  Vnom: 810 Vdc  Vmax: 960 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 1.60 | 3.20 | 4.80 | 8.00 | 12.00 | 16.00 | Wtd |
| Vmin | 760 | 93.0 | 95.7 | 96.4 | 96.8 | 96.7 | 96.5 | 96.5 |
| Vnom | 810 | 92.8 | 95.4 | 96.2 | 96.5 | 96.6 | 96.4 | 96.3 |
| Vmax | 960 | 92.2 | 94.9 | 95.9 | 96.3 | 96.3 | 96.1 | 96.0 |

**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) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) | (W) | (Vdc) | (%) |
| 10% | Vmin | 1578.7 | 761.6 | 93.0 | 1574.3 | 761.3 | 93.0 | 1576.2 | 761.2 | 93.0 | 1576.6 | 761.1 | 93.0 | 1576.3 | 761.1 | 93.0 |
| 20% | Vmin | 3437.6 | 761.1 | 95.7 | 3437.5 | 761.2 | 95.7 | 3438.7 | 761.5 | 95.7 | 3437.9 | 760.9 | 95.7 | 3437.9 | 761.3 | 95.7 |
| 30% | Vmin | 5151.6 | 764.1 | 96.4 | 5143.0 | 763.4 | 96.4 | 5142.0 | 763.2 | 96.4 | 5141.1 | 763.2 | 96.4 | 5140.4 | 763.0 | 96.4 |
| 50% | Vmin | 8746.9 | 763.2 | 96.8 | 8751.5 | 763.3 | 96.8 | 8754.4 | 763.3 | 96.8 | 8755.9 | 763.5 | 96.8 | 8755.1 | 763.6 | 96.8 |
| 75% | Vmin | 12797.5 | 764.6 | 96.7 | 12800.2 | 764.6 | 96.7 | 12802.0 | 764.6 | 96.7 | 12803.6 | 764.6 | 96.7 | 12802.2 | 764.4 | 96.7 |
| 100% | Vmin | 15349.3 | 760.2 | 96.5 | 15345.8 | 759.8 | 96.5 | 15348.3 | 759.6 | 96.5 | 15341.9 | 759.3 | 96.5 | 15336.6 | 759.1 | 96.5 |
| 10% | Vnom | 1588.7 | 812.4 | 92.7 | 1587.5 | 813.1 | 92.7 | 1589.0 | 813.2 | 92.7 | 1590.1 | 813.1 | 92.8 | 1585.9 | 812.4 | 92.8 |
| 20% | Vnom | 3433.8 | 811.8 | 95.4 | 3432.6 | 811.3 | 95.4 | 3431.2 | 810.6 | 95.3 | 3430.7 | 811.8 | 95.4 | 3436.5 | 813.7 | 95.4 |
| 30% | Vnom | 5155.1 | 813.5 | 96.2 | 5153.5 | 813.2 | 96.2 | 5154.4 | 813.5 | 96.2 | 5155.8 | 812.9 | 96.2 | 5152.0 | 812.6 | 96.2 |
| 50% | Vnom | 8768.1 | 810.9 | 96.5 | 8768.3 | 812.9 | 96.5 | 8772.4 | 812.4 | 96.5 | 8774.3 | 812.5 | 96.5 | 8779.1 | 812.2 | 96.5 |
| 75% | Vnom | 12780.9 | 811.9 | 96.6 | 12779.7 | 812.5 | 96.6 | 12780.3 | 812.5 | 96.6 | 12777.0 | 812.5 | 96.6 | 12781.7 | 812.6 | 96.6 |
| 100% | Vnom | 15323.0 | 816.5 | 96.4 | 15336.8 | 815.0 | 96.4 | 15329.3 | 813.3 | 96.4 | 15334.1 | 811.6 | 96.4 | 15347.6 | 811.5 | 96.4 |
| 10% | Vmax | 1586.7 | 951.0 | 92.1 | 1585.4 | 951.0 | 92.1 | 1586.1 | 950.9 | 92.1 | 1582.3 | 950.2 | 92.2 | 1587.1 | 950.3 | 92.2 |
| 20% | Vmax | 3427.2 | 954.5 | 94.9 | 3430.8 | 954.7 | 94.9 | 3428.9 | 954.5 | 95.0 | 3431.4 | 955.1 | 94.9 | 3429.8 | 954.8 | 94.9 |
| 30% | Vmax | 5160.5 | 955.8 | 95.9 | 5156.2 | 955.5 | 95.9 | 5157.8 | 955.3 | 95.8 | 5156.9 | 955.4 | 95.9 | 5158.4 | 955.5 | 95.9 |
| 50% | Vmax | 8767.0 | 950.7 | 96.4 | 8765.2 | 950.5 | 96.3 | 8762.9 | 950.1 | 96.3 | 8766.1 | 950.5 | 96.3 | 8766.1 | 950.4 | 96.3 |
| 75% | Vmax | 12771.9 | 949.6 | 96.3 | 12758.8 | 948.8 | 96.3 | 12760.1 | 949.2 | 96.3 | 12761.9 | 949.2 | 96.2 | 12764.7 | 949.4 | 96.2 |
| 100% | Vmax | 15325.0 | 951.3 | 96.2 | 15318.5 | 951.0 | 96.2 | 15317.7 | 950.8 | 96.2 | 15317.8 | 950.9 | 96.1 | 15315.2 | 950.6 | 96.1 |

| 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 | 1574.0 | 760.5 | 93.0 | 1576.7 | 760.6 | 93.0 | | | | | | | | | |
| 20% | Vmin | 3439.8 | 761.4 | 95.7 | 3437.0 | 761.3 | 95.7 | | | | | | | | | |
| 30% | Vmin | 5142.5 | 763.1 | 96.3 | 5139.7 | 762.5 | 96.3 | | | | | | | | | |
| 50% | Vmin | 8757.2 | 763.5 | 96.8 | 8751.2 | 763.0 | 96.8 | | | | | | | | | |
| 75% | Vmin | 12802.8 | 764.5 | 96.7 | 12801.8 | 764.4 | 96.7 | | | | | | | | | |
| 100% | Vmin | 15330.6 | 758.7 | 96.5 | 15332.3 | 759.0 | 96.5 | | | | | | | | | |
| 10% | Vnom | 1589.5 | 813.1 | 92.8 | 1586.3 | 812.1 | 92.8 | | | | | | | | | |
| 20% | Vnom | 3429.5 | 812.7 | 95.4 | 3430.5 | 812.4 | 95.4 | | | | | | | | | |
| 30% | Vnom | 5151.6 | 812.3 | 96.2 | 5146.3 | 811.8 | 96.2 | | | | | | | | | |
| 50% | Vnom | 8763.6 | 811.1 | 96.5 | 8758.5 | 810.5 | 96.5 | | | | | | | | | |
| 75% | Vnom | 12784.7 | 812.9 | 96.5 | 12786.2 | 813.0 | 96.5 | | | | | | | | | |
| 100% | Vnom | 15350.0 | 811.7 | 96.4 | 15345.6 | 811.4 | 96.4 | | | | | | | | | |
| 10% | Vmax | 1585.7 | 950.3 | 92.3 | 1586.8 | 950.7 | 92.3 | | | | | | | | | |
| 20% | Vmax | 3423.3 | 953.4 | 94.9 | 3428.2 | 953.7 | 94.9 | | | | | | | | | |
| 30% | Vmax | 5162.9 | 955.7 | 95.9 | 5160.7 | 955.1 | 95.9 | | | | | | | | | |
| 50% | Vmax | 8760.7 | 950.3 | 96.3 | 8763.0 | 950.4 | 96.3 | | | | | | | | | |
| 75% | Vmax | 12762.5 | 949.2 | 96.2 | 12761.9 | 949.4 | 96.2 | | | | | | | | | |
| 100% | Vmax | 15328.4 | 951.4 | 96.1 | 15329.7 | 951.4 | 96.1 | | | | | | | | | |