Manufacturer: Fronius International GmbH

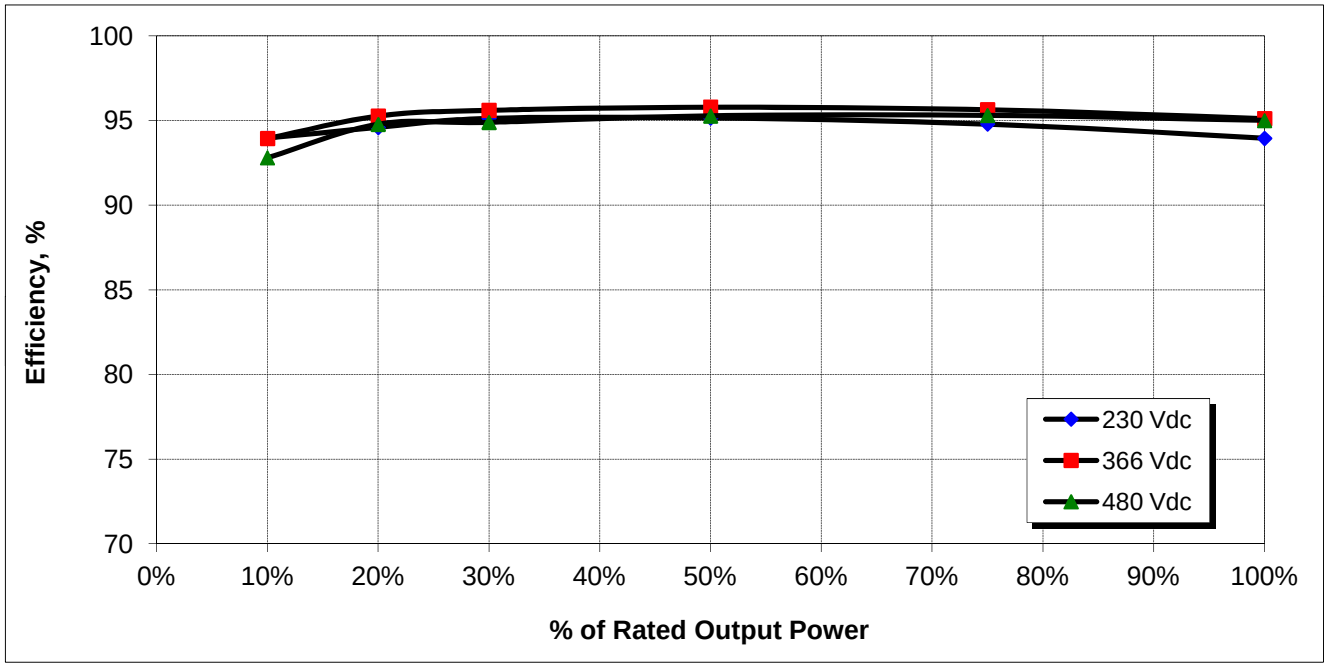
Model #: Fronius IG Plus A 10.0-1 UNI 208Vac

Rated Maximum Continuous Output Power @25°C: 9.995 kW  Night Tare Loss: 0.77 W
Rated Maximum Continuous Output Power @40°C: 9.995 kW  Night Tare Loss: 0.77 W

Vmin: 230 Vdc  Vnom: 366 Vdc  Vmax: 480 Vdc

| | | Power Level (%; kW) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 50% | 75% | 100% | |
| Input Voltage (Vdc) | | 1.00 | 2.00 | 3.00 | 5.00 | 7.50 | 10.00 | Wtd |
| Vmin | 230 | 94.0 | 94.6 | 95.1 | 95.2 | 94.8 | 93.9 | 94.82 |
| Vnom | 366 | 93.9 | 95.3 | 95.6 | 95.8 | 95.6 | 95.1 | 95.55 |
| Vmax | 480 | 92.8 | 94.8 | 94.9 | 95.3 | 95.3 | 95.0 | 95.10 |

**CEC Efficiency = 95.0%**



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 | 972.21 | 229.20 | 93.96 | 972.20 | 229.20 | 93.98 | 972.20 | 229.20 | 93.95 | 972.34 | 229.20 | 93.95 | 972.61 | 229.21 | 93.94 |
| 20% | Vmin | 2174.53 | 229.04 | 94.58 | 2174.33 | 229.03 | 94.59 | 2174.45 | 229.03 | 94.59 | 2174.80 | 229.03 | 94.59 | 2174.90 | 229.03 | 94.59 |
| 30% | Vmin | 3217.49 | 229.20 | 95.13 | 3217.45 | 229.20 | 95.13 | 3217.08 | 229.20 | 95.13 | 3217.34 | 229.20 | 95.14 | 3217.56 | 229.20 | 95.12 |
| 50% | Vmin | 5468.33 | 228.97 | 95.15 | 5468.34 | 228.97 | 95.16 | 5468.82 | 228.96 | 95.16 | 5469.21 | 228.97 | 95.15 | 5468.85 | 228.97 | 95.15 |
| 75% | Vmin | 7040.40 | 229.24 | 94.79 | 7040.32 | 229.24 | 94.79 | 7040.26 | 229.24 | 94.79 | 7040.20 | 229.24 | 94.79 | 7039.14 | 229.21 | 94.79 |
| 100% | Vmin | 9506.11 | 229.21 | 93.95 | 9506.76 | 229.20 | 93.95 | 9506.34 | 229.20 | 93.95 | 9506.15 | 229.20 | 93.95 | 9506.04 | 229.20 | 93.95 |
| 10% | Vnom | 965.64 | 364.80 | 93.94 | 966.09 | 364.81 | 93.92 | 966.30 | 364.81 | 93.93 | 966.76 | 364.81 | 93.96 | 966.75 | 364.81 | 93.92 |
| 20% | Vnom | 2163.44 | 364.62 | 95.27 | 2163.52 | 364.63 | 95.28 | 2163.25 | 364.63 | 95.26 | 2162.98 | 364.63 | 95.25 | 2162.63 | 364.63 | 95.27 |
| 30% | Vnom | 3223.15 | 365.00 | 95.59 | 3223.57 | 365.00 | 95.60 | 3223.65 | 365.00 | 95.59 | 3223.23 | 364.99 | 95.61 | 3223.11 | 365.00 | 95.62 |
| 50% | Vnom | 5474.64 | 364.84 | 95.79 | 5474.39 | 364.85 | 95.79 | 5473.52 | 364.84 | 95.79 | 5473.68 | 364.85 | 95.78 | 5473.33 | 364.85 | 95.79 |
| 75% | Vnom | 7070.33 | 364.39 | 95.64 | 7070.27 | 364.39 | 95.64 | 7069.95 | 364.39 | 95.64 | 7070.59 | 364.39 | 95.64 | 7070.89 | 364.39 | 95.65 |
| 100% | Vnom | 9527.38 | 364.41 | 95.11 | 9527.21 | 364.41 | 95.11 | 9527.79 | 364.41 | 95.11 | 9527.28 | 364.40 | 95.11 | 9527.80 | 364.41 | 95.11 |
| 10% | Vmax | 979.66 | 478.02 | 92.83 | 979.49 | 478.02 | 92.80 | 979.69 | 478.02 | 92.77 | 980.58 | 478.02 | 92.81 | 979.77 | 478.02 | 92.88 |
| 20% | Vmax | 2185.74 | 477.90 | 94.77 | 2184.88 | 477.90 | 94.79 | 2183.49 | 477.91 | 94.80 | 2183.64 | 477.90 | 94.77 | 2183.39 | 477.90 | 94.77 |
| 30% | Vmax | 3236.49 | 478.31 | 94.89 | 3234.93 | 478.31 | 94.89 | 3235.15 | 478.31 | 94.88 | 3234.86 | 478.30 | 94.89 | 3235.10 | 478.30 | 94.90 |
| 50% | Vmax | 5443.50 | 478.07 | 95.28 | 5443.68 | 478.06 | 95.28 | 5443.07 | 478.07 | 95.27 | 5443.79 | 478.07 | 95.28 | 5444.65 | 478.07 | 95.26 |
| 75% | Vmax | 7050.47 | 478.31 | 95.30 | 7050.55 | 478.31 | 95.30 | 7050.04 | 478.31 | 95.30 | 7050.31 | 478.30 | 95.30 | 7050.01 | 478.30 | 95.30 |
| 100% | Vmax | 9545.17 | 478.54 | 95.00 | 9545.07 | 478.54 | 95.00 | 9544.57 | 478.54 | 94.99 | 9545.19 | 478.54 | 95.00 | 9544.63 | 478.54 | 95.00 |

| 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 | 972.72 | 229.21 | 93.96 | 972.37 | 229.20 | 93.96 | | | | | | | | | |
| 20% | Vmin | 2174.61 | 229.02 | 94.58 | 2174.12 | 229.03 | 94.59 | | | | | | | | | |
| 30% | Vmin | 3217.42 | 229.20 | 95.13 | 3217.52 | 229.20 | 95.13 | | | | | | | | | |
| 50% | Vmin | 5469.26 | 228.97 | 95.15 | 5469.19 | 228.97 | 95.15 | | | | | | | | | |
| 75% | Vmin | 7038.96 | 229.20 | 94.79 | 7039.25 | 229.20 | 94.79 | | | | | | | | | |
| 100% | Vmin | 9506.49 | 229.20 | 93.95 | 9506.16 | 229.20 | 93.95 | | | | | | | | | |
| 10% | Vnom | 966.31 | 364.81 | 93.96 | 966.23 | 364.80 | 93.94 | | | | | | | | | |
| 20% | Vnom | 2163.53 | 364.63 | 95.26 | 2163.88 | 364.62 | 95.27 | | | | | | | | | |
| 30% | Vnom | 3223.04 | 365.00 | 95.61 | 3222.83 | 365.00 | 95.62 | | | | | | | | | |
| 50% | Vnom | 5473.68 | 364.85 | 95.78 | 5473.76 | 364.85 | 95.78 | | | | | | | | | |
| 75% | Vnom | 7071.01 | 364.39 | 95.64 | 7071.24 | 364.39 | 95.64 | | | | | | | | | |
| 100% | Vnom | 9528.12 | 364.40 | 95.12 | 9528.03 | 364.40 | 95.12 | | | | | | | | | |
| 10% | Vmax | 980.24 | 478.02 | 92.79 | 979.57 | 478.02 | 92.74 | | | | | | | | | |
| 20% | Vmax | 2183.25 | 477.90 | 94.77 | 2184.32 | 477.93 | 94.77 | | | | | | | | | |
| 30% | Vmax | 3235.54 | 478.30 | 94.88 | 3234.89 | 478.30 | 94.89 | | | | | | | | | |
| 50% | Vmax | 5442.92 | 478.07 | 95.27 | 5443.02 | 478.07 | 95.27 | | | | | | | | | |
| 75% | Vmax | 7049.96 | 478.30 | 95.30 | 7050.75 | 478.30 | 95.30 | | | | | | | | | |
| 100% | Vmax | 9545.72 | 478.54 | 95.01 | 9544.80 | 478.54 | 95.00 | | | | | | | | | |