Manufacturer: Fronius International GmbH

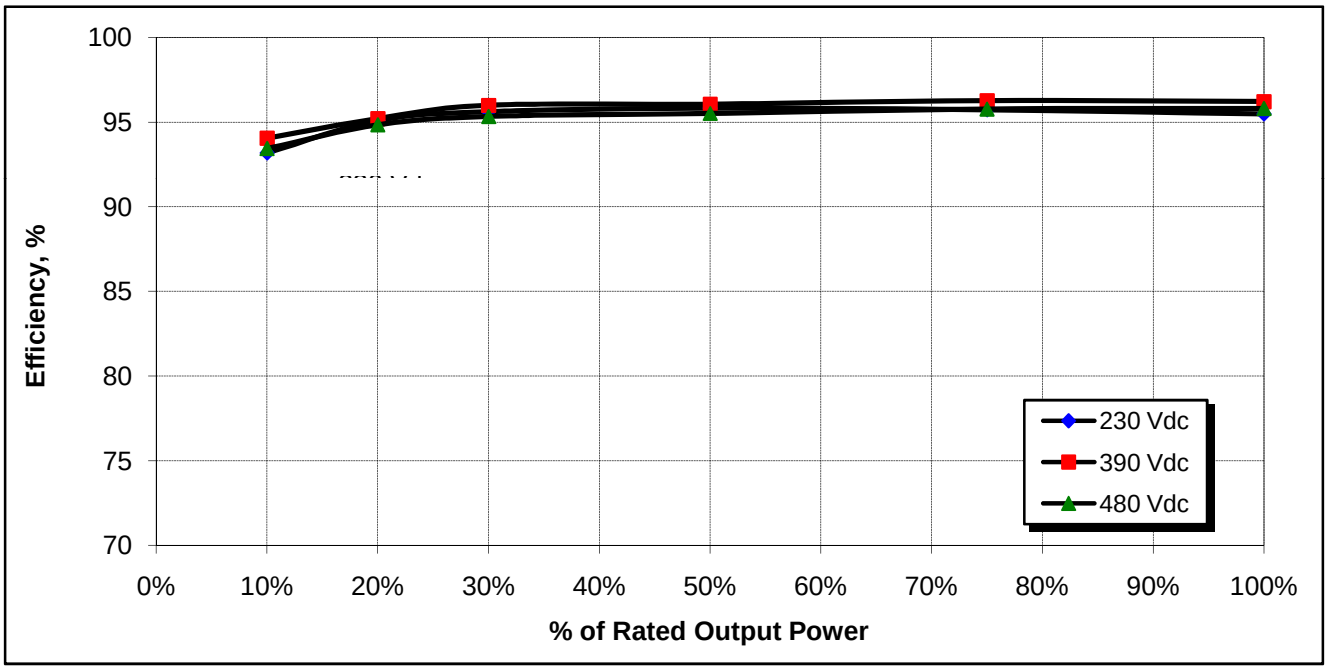
Model #: Fronius IG Plus 5.0-1 UNI (240V)

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: 0.76 W

Vmin: 230 Vdc Vnom: 390 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	230	93.2	95.1	95.6	95.8	95.7	95.5	95.6
Vnom	390	94.1	95.2	96.0	96.1	96.3	96.2	96.0
Vmax	480	93.4	94.8	95.3	95.5	95.8	95.8	95.5

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	482.37	229.16	92.982	482.9	229.16	93.003	483.8	229.17	93.285	483.8	229.16	93.239	483.6	229.17	93.234
20%	Vmin	1079.3	228.38	95.092	1080	228.37	95.073	1079	228.38	95.115	1079	228.38	95.086	1079	228.37	95.095
30%	Vmin	1613.1	228.97	95.607	1613	228.97	95.601	1613	228.97	95.654	1613	228.97	95.599	1613	228.97	95.622
50%	Vmin	2733	228.34	95.829	2734	228.34	95.826	2733	228.35	95.825	2733	228.35	95.831	2733	228.35	95.830
75%	Vmin	3980.5	228.29	95.723	3980	228.29	95.733	3979	228.28	95.733	3980	228.29	95.728	3980	228.28	95.727
100%	Vmin	4778.1	228.3	95.478	4778	228.31	95.469	4778	228.3	95.480	4778	228.3	95.475	4778	228.31	95.484
10%	Vnom	496.79	387.38	93.963	497	387.38	94.159	497.8	387.37	94.069	498.2	387.38	94.005	497.7	387.38	94.121
20%	Vnom	1061.7	388.58	95.342	1062	388.59	95.159	1062	388.58	95.158	1061	388.58	95.156	1061	388.59	95.237
30%	Vnom	1592.2	388.56	95.983	1592	388.57	95.962	1592	388.57	96.063	1592	388.56	95.967	1592	388.57	95.959
50%	Vnom	2707.9	387.35	96.042	2708	387.36	96.050	2708	387.35	96.086	2708	387.35	96.049	2707	387.36	96.065
75%	Vnom	3985.5	387.32	96.278	3987	387.32	96.275	3986	387.33	96.240	3986	387.31	96.280	3987	387.32	96.241
100%	Vnom	4805.2	387.27	96.213	4805	387.27	96.197	4805	387.26	96.198	4805	387.27	96.232	4805	387.28	96.187
10%	Vmax	476.55	478.28	93.369	475.7	478.29	93.012	476.5	478.29	93.160	477.2	478.29	93.702	476	478.29	93.540
20%	Vmax	1077.1	478.25	94.892	1077	478.25	94.772	1077	478.25	94.863	1076	478.25	94.798	1076	478.24	94.850
30%	Vmax	1581.4	476.55	95.325	1580	476.55	95.354	1581	476.55	95.286	1582	476.55	95.251	1583	476.54	95.357
50%	Vmax	2721.9	476.63	95.520	2722	476.63	95.540	2722	476.63	95.476	2722	476.63	95.516	2721	476.63	95.476
75%	Vmax	3967	476.64	95.763	3967	476.63	95.777	3968	476.64	95.773	3967	476.64	95.730	3967	476.63	95.769
100%	Vmax	4793.1	476.61	95.806	4792	476.61	95.789	4794	476.61	95.792	4793	476.61	95.820	4793	476.6	95.831

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	483.42	229.17	93.283	483.5	229.17	93.190									
20%	Vmin	1079.2	228.38	95.074	1079	228.38	95.102									
30%	Vmin	1612.8	228.97	95.595	1613	228.97	95.649									
50%	Vmin	2733.3	228.35	95.823	2733	228.35	95.817									
75%	Vmin	3980	228.28	95.738	3980	228.28	95.727									
100%	Vmin	4777.7	228.3	95.471	4779	228.31	95.488									
10%	Vnom	497.37	387.38	94.115	498.4	387.38	93.939									
20%	Vnom	1062.2	388.59	95.237	1063	388.59	95.171									
30%	Vnom	1592	388.56	95.970	1592	388.57	96.041									
50%	Vnom	2707.4	387.35	96.059	2707	387.35	96.048									
75%	Vnom	3986.4	387.33	96.259	3986	387.31	96.288									
100%	Vnom	4804.7	387.26	96.209	4806	387.27	96.221									
10%	Vmax	476.04	478.29	93.656	476.7	478.29	93.612									
20%	Vmax	1076.2	478.25	94.824	1076	478.25	94.831									
30%	Vmax	1582.2	476.55	95.367	1581	476.55	95.358									
50%	Vmax	2722.3	476.62	95.525	2721	476.63	95.494									
75%	Vmax	3966.8	476.63	95.773	3967	476.64	95.791									
100%	Vmax	4793.4	476.6	95.803	4794	476.6	95.805									