Manufacturer: Fronius International GmbH

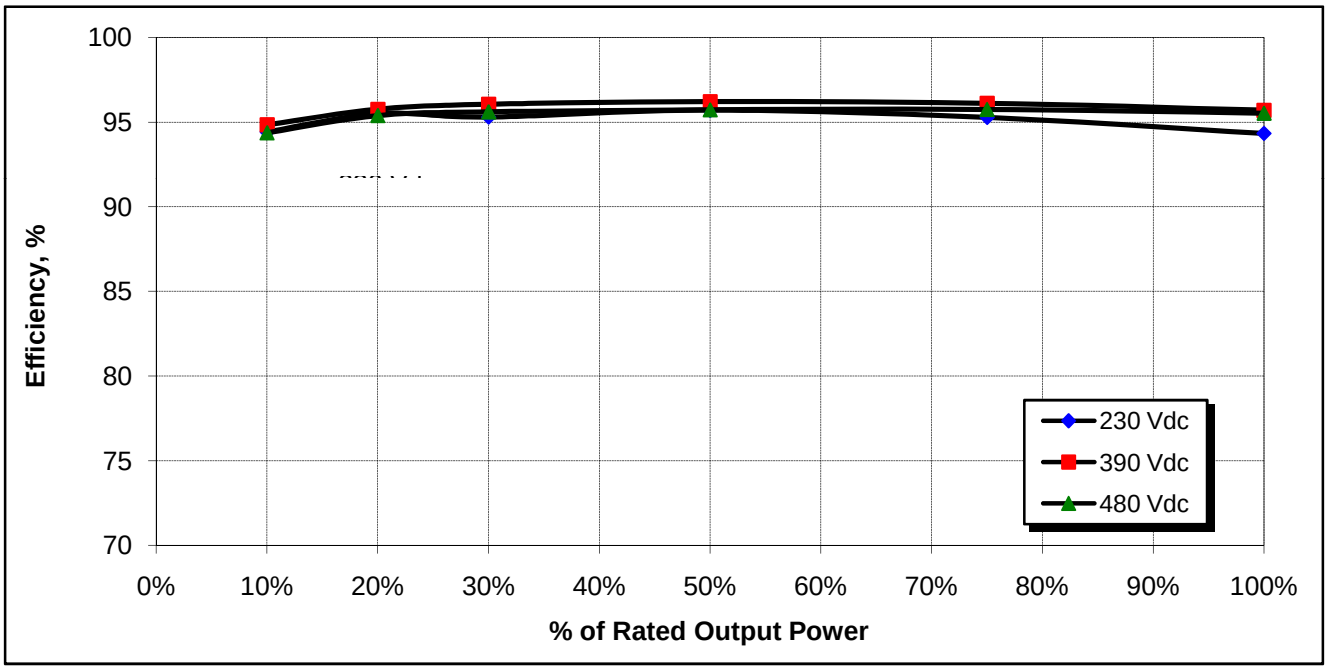
Model #: Fronius IG Plus 7.5-1 UNI (240V)

Rated Maximum Continuous Output Power: 7.50 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)		0.75	1.50	2.25	3.75	5.63	7.50	Wtd
Vmin	230	94.4	95.5	95.3	95.7	95.3	94.3	95.3
Vnom	390	94.8	95.8	96.1	96.2	96.1	95.7	96.0
Vmax	480	94.4	95.4	95.6	95.7	95.8	95.5	95.6

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	744.64	228.46	94.392	744.7	228.46	94.309	744.9	228.46	94.366	745.6	228.46	94.397	745.4	228.47	94.425
20%	Vmin	1633.5	228.98	95.477	1634	228.98	95.502	1634	228.98	95.510	1634	228.98	95.501	1633	228.98	95.496
30%	Vmin	2409.8	228.1	95.294	2410	228.1	95.308	2410	228.1	95.277	2410	228.11	95.292	2410	228.1	95.297
50%	Vmin	3926	228.99	95.720	3926	228.99	95.706	3925	228.99	95.696	3925	228.99	95.689	3926	228.99	95.706
75%	Vmin	5261.3	228.9	95.276	5262	228.9	95.276	5262	228.9	95.273	5262	228.89	95.275	5262	228.89	95.266
100%	Vmin	7145	228.79	94.324	7145	228.8	94.317	7147	228.82	94.321	7146	228.78	94.325	7146	228.8	94.332
10%	Vnom	725.95	388.6	94.901	725.2	388.61	94.817	725.6	388.61	94.840	725.7	388.61	94.967	724.8	388.61	94.889
20%	Vnom	1617.6	387.3	95.793	1618	387.29	95.762	1618	387.29	95.800	1618	387.3	95.745	1618	387.29	95.800
30%	Vnom	2417.3	388.44	96.055	2416	388.44	96.038	2416	388.43	96.035	2415	388.43	96.079	2415	388.44	96.086
50%	Vnom	3960	388.62	96.203	3960	388.59	96.217	3960	388.62	96.215	3961	388.62	96.211	3961	388.61	96.203
75%	Vnom	5266.3	388.5	96.107	5267	388.5	96.109	5266	388.5	96.100	5267	388.5	96.120	5267	388.5	96.125
100%	Vnom	7147.2	388.51	95.709	7147	388.51	95.698	7147	388.51	95.708	7147	388.52	95.718	7146	388.5	95.709
10%	Vmax	741.42	471.68	94.541	742.3	471.69	94.384	743.1	471.71	94.424	742.9	471.7	94.409	741.9	471.69	94.332
20%	Vmax	1616.1	473.26	95.354	1616	473.26	95.461	1615	473.26	95.326	1616	473.26	95.415	1616	473.26	95.290
30%	Vmax	2387	473.2	95.639	2387	473.19	95.593	2388	473.2	95.637	2387	473.2	95.585	2388	473.2	95.558
50%	Vmax	3985.6	473.33	95.747	3986	473.34	95.701	3985	473.34	95.712	3984	473.33	95.715	3985	473.34	95.708
75%	Vmax	5302.1	473.22	95.753	5302	473.22	95.736	5303	473.22	95.760	5302	473.21	95.741	5302	473.22	95.773
100%	Vmax	7146.6	473.2	95.528	7146	473.19	95.526	7145	473.18	95.523	7146	473.21	95.522	7146	473.21	95.521

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	745.41	228.46	94.520	745.6	228.46	94.503									
20%	Vmin	1633	228.98	95.490	1633	228.98	95.507									
30%	Vmin	2409.7	228.1	95.309	2410	228.1	95.298									
50%	Vmin	3925.3	228.99	95.708	3925	228.99	95.711									
75%	Vmin	5261.3	228.89	95.277	5262	228.89	95.280									
100%	Vmin	7146.9	228.8	94.334	7146	228.8	94.322									
10%	Vnom	724.09	388.61	94.713	722.8	388.61	94.811									
20%	Vnom	1618.1	387.29	95.678	1618	387.29	95.787									
30%	Vnom	2415	388.43	96.053	2415	388.44	96.044									
50%	Vnom	3960.9	388.62	96.223	3961	388.61	96.208									
75%	Vnom	5266.2	388.5	96.112	5267	388.51	96.136									
100%	Vnom	7146	388.49	95.697	7147	388.5	95.699									
10%	Vmax	742.37	471.69	94.180	743.2	471.7	94.343									
20%	Vmax	1616.1	473.26	95.423	1616	473.26	95.436									
30%	Vmax	2387.4	473.2	95.611	2387	473.2	95.612									
50%	Vmax	3984.4	473.33	95.745	3986	473.33	95.723									
75%	Vmax	5302.2	473.22	95.743	5302	473.22	95.750									
100%	Vmax	7146.7	473.2	95.526	7148	473.2	95.540									