Manufacturer: Fronius International GmbH

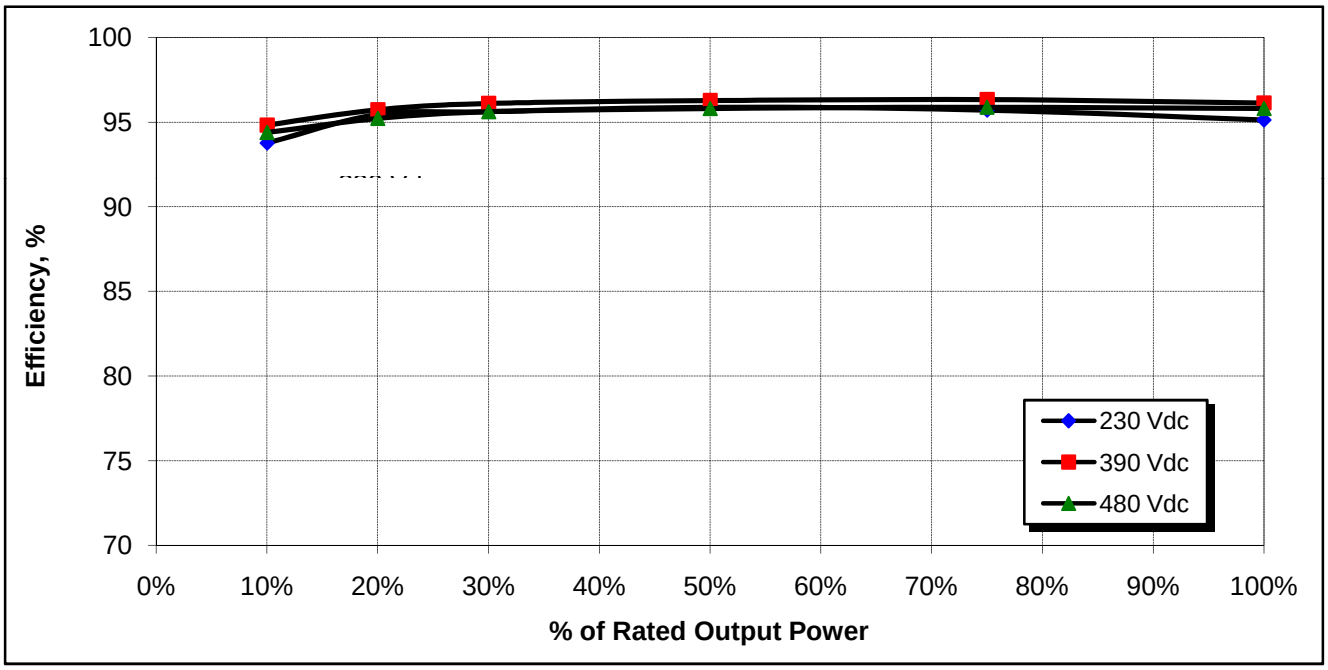
Model #: Fronius IG Plus 6.0-1 UNI (240V)

Rated Maximum Continuous Output Power: 6.00 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)		0.60	1.20	1.80	3.00	4.50	6.00	Wtd
Vmin	230	93.8	95.5	95.6	95.9	95.7	95.1	95.6
Vnom	390	94.8	95.7	96.1	96.3	96.3	96.1	96.2
Vmax	480	94.4	95.2	95.6	95.8	95.9	95.8	95.7

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	571.69	228.47	93.759	571.8	228.48	93.805	571.7	228.48	93.723	571.9	228.48	93.810	571.5	228.49	93.881
20%	Vmin	1280	228.35	95.454	1279	228.35	95.408	1280	228.35	95.457	1279	228.34	95.507	1280	228.35	95.446
30%	Vmin	1937.5	228.23	95.629	1938	228.23	95.629	1938	228.23	95.632	1938	228.23	95.610	1937	228.22	95.576
50%	Vmin	3238.7	228.32	95.895	3239	228.32	95.896	3239	228.32	95.874	3238	228.32	95.889	3239	228.32	95.888
75%	Vmin	4240.7	228.3	95.713	4241	228.3	95.714	4241	228.3	95.707	4240	228.3	95.722	4241	228.3	95.709
100%	Vmin	5729.1	228.18	95.130	5731	228.21	95.129	5729	228.19	95.117	5729	228.18	95.129	5731	228.22	95.131
10%	Vnom	540.94	387.35	94.862	540.6	387.36	94.737	541.5	387.35	94.789	540.7	387.36	94.676	539.8	387.36	94.873
20%	Vnom	1288.7	387.32	95.811	1289	387.32	95.646	1289	387.32	95.753	1289	387.32	95.700	1289	387.32	95.646
30%	Vnom	1922.9	387.3	96.134	1923	387.3	96.061	1923	387.3	96.107	1924	387.3	96.145	1923	387.3	96.062
50%	Vnom	3277.1	387.37	96.317	3277	387.37	96.257	3278	387.38	96.264	3278	387.37	96.302	3276	387.37	96.275
75%	Vnom	4212.9	387.38	96.361	4213	387.4	96.335	4214	387.37	96.354	4214	387.38	96.346	4212	387.4	96.332
100%	Vnom	5732.4	387.3	96.142	5732	387.32	96.138	5731	387.29	96.132	5732	387.31	96.136	5732	387.31	96.126
10%	Vmax	564.43	471.7	94.439	563.6	471.7	94.511	563.4	471.7	94.388	563.8	471.71	94.298	563.9	471.7	94.384
20%	Vmax	1291.8	471.65	95.290	1292	471.65	95.175	1292	471.65	95.273	1292	471.65	95.273	1292	471.65	95.188
30%	Vmax	1926.4	471.64	95.676	1926	471.65	95.590	1927	471.65	95.605	1927	471.65	95.605	1926	471.65	95.605
50%	Vmax	3289.4	471.75	95.814	3290	471.75	95.823	3290	471.76	95.778	3289	471.75	95.819	3290	471.76	95.806
75%	Vmax	4247.5	471.74	95.897	4247	471.77	95.903	4247	471.76	95.882	4249	471.75	95.883	4249	471.76	95.879
100%	Vmax	5736.4	471.67	95.802	5737	471.66	95.786	5738	471.67	95.826	5737	471.66	95.802	5737	471.67	95.799

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	571.37	228.48	93.792	570.9	228.48	93.620									
20%	Vmin	1279.6	228.35	95.447	1279	228.35	95.433									
30%	Vmin	1937.2	228.22	95.627	1937	228.23	95.610									
50%	Vmin	3238.5	228.32	95.878	3239	228.32	95.886									
75%	Vmin	4240.6	228.3	95.718	4241	228.3	95.732									
100%	Vmin	5729.4	228.18	95.112	5731	228.2	95.131									
10%	Vnom	540.63	387.36	94.859	540.4	387.36	94.928									
20%	Vnom	1288.9	387.32	95.801	1289	387.32	95.731									
30%	Vnom	1923.7	387.3	96.159	1924	387.3	96.076									
50%	Vnom	3276.3	387.37	96.266	3276	387.36	96.262									
75%	Vnom	4211.4	387.37	96.325	4212	387.38	96.310									
100%	Vnom	5732.4	387.3	96.131	5732	387.32	96.143									
10%	Vmax	565.02	471.73	94.351	565	471.71	94.401									
20%	Vmax	1291.5	471.65	95.191	1291	471.65	95.136									
30%	Vmax	1926.5	471.65	95.572	1926	471.65	95.672									
50%	Vmax	3290.6	471.76	95.789	3290	471.75	95.805									
75%	Vmax	4248.3	471.75	95.870	4248	471.75	95.885									
100%	Vmax	5737	471.67	95.796	5737	471.66	95.809									