Manufacturer: Fronius International GmbH

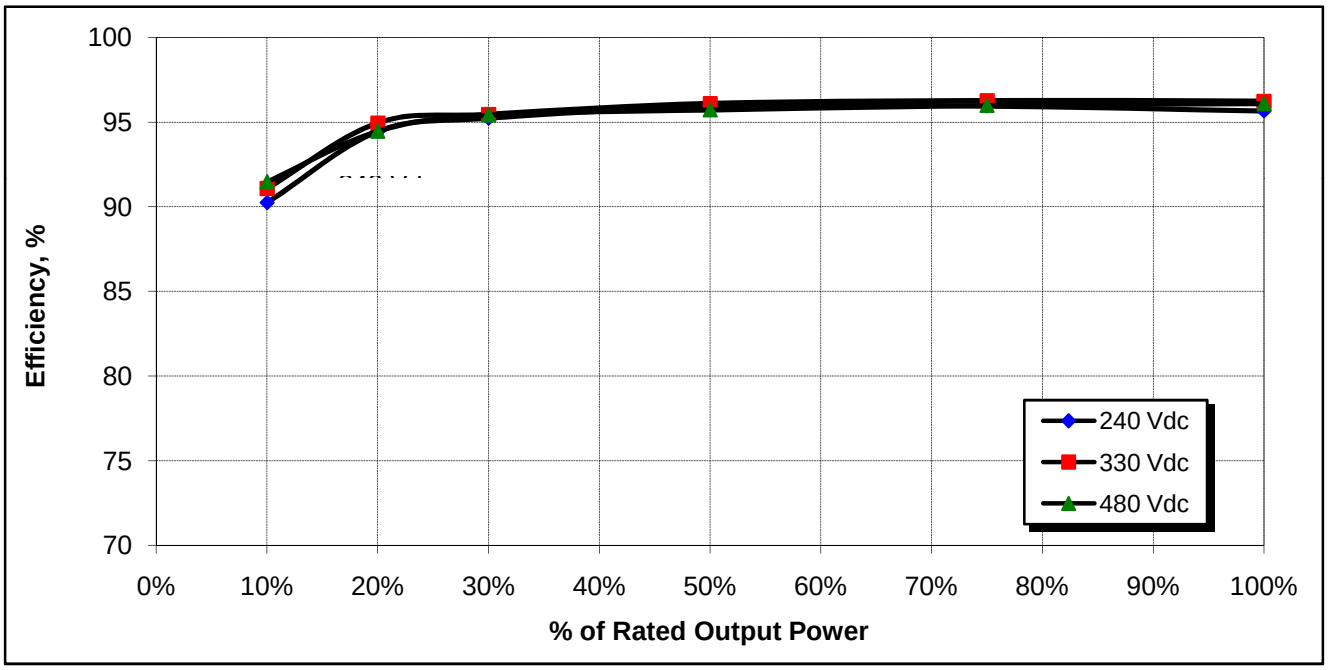
Model #: Fronius IG Plus 3.0-1 UNI (277V)

Rated Maximum Continuous Output Power: 3.00 kW Night Tare Loss: 1.10 W

Vmin: 240 Vdc Vnom: 330 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	240	90.2	94.4	95.2	95.9	96.0	95.7	95.5
Vnom	330	91.1	94.9	95.5	96.1	96.3	96.2	95.9
Vmax	480	91.5	94.5	95.4	95.7	96.0	96.1	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	276.37	237.68	90.306	276.3	237.69	90.240	275.9	237.69	90.198	276.5	237.68	90.244	276.3	237.69	90.246
20%	Vmin	646.91	237.72	94.399	647.2	237.73	94.479	647.2	237.73	94.472	647.2	237.73	94.440	647.6	237.74	94.454
30%	Vmin	920.02	237.73	95.175	920.7	237.72	95.224	921.5	237.72	95.282	921.3	237.72	95.274	921.5	237.73	95.285
50%	Vmin	1566.1	237.67	95.893	1566	237.67	95.902	1566	237.67	95.893	1566	237.67	95.898	1566	237.67	95.901
75%	Vmin	2115.4	237.64	95.956	2116	237.64	95.960	2116	237.64	95.951	2116	237.64	95.966	2116	237.64	95.954
100%	Vmin	2903	237.58	95.657	2904	237.6	95.661	2903	237.58	95.656	2904	237.6	95.664	2903	237.59	95.658
10%	Vnom	293.53	327.09	91.143	291.5	327.1	90.528	292.9	327.1	90.894	291.5	327.1	90.416	295.1	327.1	91.790
20%	Vnom	645.04	327.13	94.922	645.6	327.13	94.969	645.3	327.13	94.949	645.2	327.13	94.946	645.3	327.13	94.959
30%	Vnom	930.24	327.13	95.432	930.6	327.13	95.475	931	327.13	95.511	931.1	327.14	95.511	931.2	327.14	95.504
50%	Vnom	1594.8	327.13	96.101	1595	327.12	96.105	1595	327.12	96.097	1595	327.12	96.099	1595	327.12	96.104
75%	Vnom	2132	327.04	96.267	2132	327.04	96.280	2132	327.04	96.274	2132	327.03	96.271	2132	327.04	96.264
100%	Vnom	2918.8	327.04	96.233	2919	327.03	96.234	2918	327.04	96.235	2918	327.03	96.228	2919	327.03	96.238
10%	Vmax	292.32	470.82	91.451	292.3	470.82	91.480	291.8	470.81	91.456	292.5	470.82	91.515	292.1	470.83	91.478
20%	Vmax	614.37	471.26	94.759	608.6	471.28	94.731	605.4	471.36	94.258	603.1	471.31	94.190	599.5	471.35	94.315
30%	Vmax	931.43	470.81	95.470	931.4	470.82	95.472	931.1	470.81	95.495	930.3	470.82	95.442	930	470.81	95.365
50%	Vmax	1581.1	475.75	95.719	1581	475.76	95.706	1581	475.75	95.720	1581	475.76	95.716	1582	475.75	95.724
75%	Vmax	2136.9	475.77	95.982	2137	475.78	95.976	2136	475.77	95.978	2137	475.78	95.977	2137	475.77	95.981
100%	Vmax	2869	475.73	96.088	2869	475.71	96.090	2868	475.72	96.092	2868	475.71	96.089	2868	475.71	96.094

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	276.35	237.68	90.247	276.4	237.69	90.193									
20%	Vmin	647.13	237.73	94.436	647.4	237.74	94.449									
30%	Vmin	920.85	237.73	95.245	919.9	237.73	95.162									
50%	Vmin	1566.4	237.67	95.899	1566	237.67	95.890									
75%	Vmin	2115.7	237.64	95.954	2116	237.64	95.951									
100%	Vmin	2903.7	237.6	95.666	2903	237.59	95.656									
10%	Vnom	293.6	327.11	91.369	294.5	327.11	91.459									
20%	Vnom	644.68	327.13	94.921	645.2	327.13	94.949									
30%	Vnom	930.2	327.15	95.403	930.4	327.14	95.423									
50%	Vnom	1594.2	327.12	96.092	1594	327.12	96.091									
75%	Vnom	2131.5	327.04	96.263	2132	327.04	96.274									
100%	Vnom	2918.8	327.03	96.227	2919	327.04	96.232									
10%	Vmax	291.74	470.83	91.486	291.3	470.83	91.414									
20%	Vmax	611.07	471.33	94.627	609.1	471.25	94.298									
30%	Vmax	929.66	470.82	95.326	929.5	470.81	95.343									
50%	Vmax	1581.3	475.76	95.715	1580	475.75	95.723									
75%	Vmax	2136.4	475.78	95.976	2137	475.77	95.983									
100%	Vmax	2868.3	475.71	96.084	2868	475.72	96.090									