Manufacturer: Fronius International GmbH

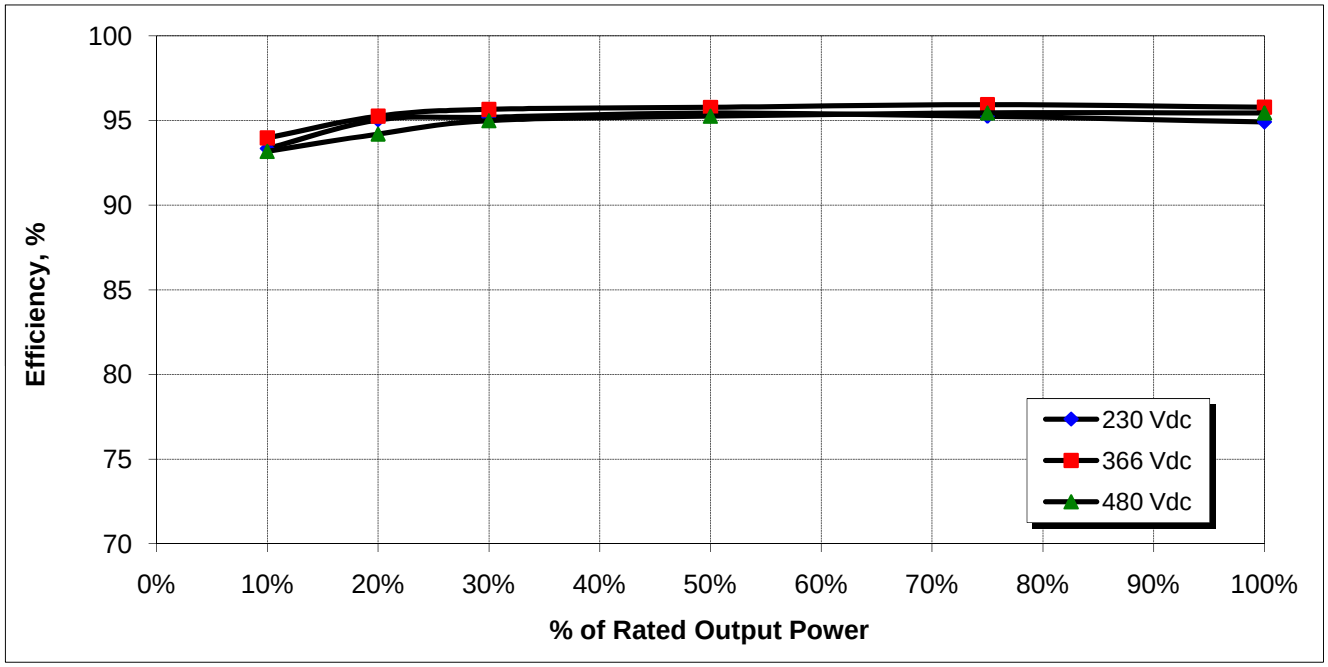
Model #: Fronius IG Plus V 5.0-1 UNI 208Vac

Rated Maximum Continuous Output Power @25°C: 5.0 kW Night Tare Loss: 0.60 W
Rated Maximum Continuous Output Power @40°C: 5.0 kW Night Tare Loss: 0.60 W

Vmin: 230 Vdc Vnom: 366 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	93.3	95.0	95.2	95.4	95.3	94.9	95.18
Vnom	366	94.0	95.3	95.7	95.8	95.9	95.8	95.74
Vmax	480	93.2	94.2	95.0	95.3	95.5	95.4	95.20

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	483.59	229.06	93.191	483.6	229.08	93.195	484.6	229.07	93.341	485.3	229.07	93.420	485.3	229.06	93.433
20%	Vmin	1086.7	228.97	94.992	1087	228.97	95.032	1088	228.97	95.079	1087	228.97	95.096	1087	228.97	95.046
30%	Vmin	1598.8	229.17	95.194	1599	229.18	95.190	1599	229.18	95.206	1599	229.18	95.164	1599	229.18	95.202
50%	Vmin	2716.8	229.33	95.441	2716	229.33	95.440	2716	229.34	95.439	2717	229.33	95.438	2717	229.33	95.451
75%	Vmin	3955.7	229.22	95.239	3956	229.22	95.239	3957	229.22	95.256	3957	229.22	95.260	3957	229.22	95.261
100%	Vmin	4793	228.78	94.941	4792	228.77	94.924	4791	228.8	94.916	4791	228.78	94.910	4791	228.78	94.903
10%	Vnom	464.01	364.25	93.899	465.3	364.25	93.868	465	364.26	93.966	464.9	364.26	93.964	464.8	364.25	93.977
20%	Vnom	1068.8	364.97	95.264	1069	364.97	95.188	1069	364.97	95.293	1069	364.97	95.251	1070	364.97	95.241
30%	Vnom	1599.2	364.2	95.655	1599	364.2	95.640	1599	364.2	95.663	1599	364.2	95.662	1598	364.2	95.647
50%	Vnom	2707.4	364.95	95.754	2708	364.96	95.787	2708	364.95	95.765	2708	364.95	95.773	2708	364.95	95.772
75%	Vnom	3945.9	364.18	95.932	3945	364.19	95.919	3946	364.19	95.931	3946	364.19	95.919	3946	364.19	95.932
100%	Vnom	4797.5	364.81	95.770	4798	364.83	95.781	4798	364.83	95.781	4798	364.83	95.769	4798	364.84	95.786
10%	Vmax	468.22	478.57	93.391	468.1	478.58	93.170	469.5	478.57	93.343	468.4	478.56	93.177	467.5	478.57	92.978
20%	Vmax	1064.4	477.75	94.202	1065	477.76	94.218	1065	477.76	94.171	1065	477.75	94.227	1065	477.75	94.192
30%	Vmax	1582.8	478.51	94.994	1583	478.51	94.978	1584	478.51	94.984	1584	478.51	94.987	1583	478.51	95.008
50%	Vmax	2735.8	477.59	95.266	2736	477.58	95.265	2736	477.59	95.251	2735	477.59	95.255	2737	477.59	95.242
75%	Vmax	3954.2	478.56	95.459	3953	478.54	95.439	3953	478.56	95.442	3955	478.54	95.463	3955	478.57	95.452
100%	Vmax	4781.9	477.71	95.440	4782	477.72	95.451	4783	477.72	95.445	4783	477.72	95.440	4783	477.72	95.459

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	485.47	229.06	93.411	485.4	229.06	93.382									
20%	Vmin	1086.5	228.97	95.043	1086	228.98	94.938									
30%	Vmin	1599.1	229.18	95.218	1599	229.18	95.214									
50%	Vmin	2716.7	229.33	95.436	2717	229.34	95.445									
75%	Vmin	3957.1	229.22	95.260	3957	229.22	95.252									
100%	Vmin	4790.7	228.8	94.898	4792	228.8	94.919									
10%	Vnom	464.84	364.26	94.016	465.2	364.24	94.079									
20%	Vnom	1069.3	364.97	95.273	1069	364.97	95.287									
30%	Vnom	1598	364.19	95.637	1598	364.2	95.671									
50%	Vnom	2706.9	364.96	95.772	2707	364.96	95.792									
75%	Vnom	3945.8	364.19	95.938	3945	364.19	95.935									
100%	Vnom	4797.6	364.84	95.785	4797	364.84	95.784									
10%	Vmax	467.21	478.59	93.185	467.2	478.58	93.001									
20%	Vmax	1066.5	477.76	94.187	1066	477.76	94.229									
30%	Vmax	1583.5	478.51	94.992	1584	478.51	95.007									
50%	Vmax	2736.1	477.59	95.256	2736	477.59	95.270									
75%	Vmax	3954.8	478.56	95.459	3954	478.57	95.449									
100%	Vmax	4782.5	477.72	95.453	4783	477.72	95.457									