Manufacturer: Fronius International GmbH

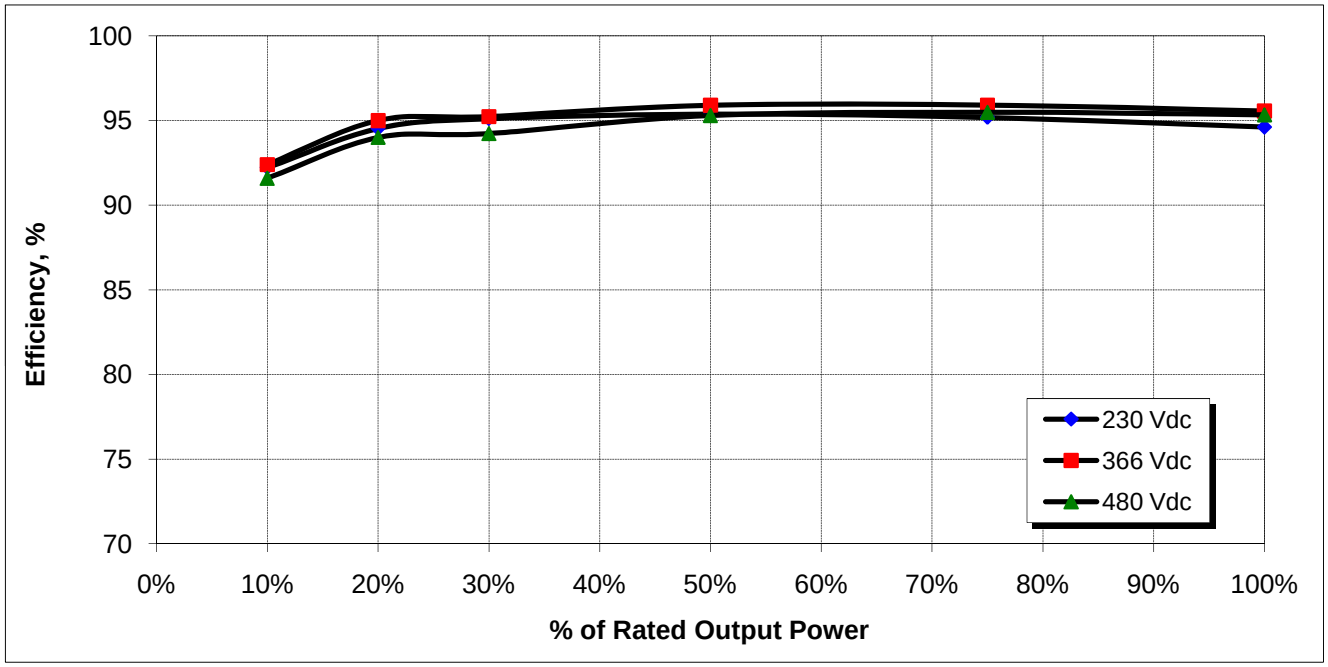
Model #: Fronius IG Plus V 3.0-1 UNI 208Vac

Rated Maximum Continuous Output Power @25°C: 3.000 kW Night Tare Loss: 0.53 W
Rated Maximum Continuous Output Power @40°C: 3.000 kW Night Tare Loss: 0.53 W

Vmin: 230 Vdc Vnom: 366 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	230	92.2	94.5	95.1	95.4	95.2	94.6	95.04
Vnom	366	92.4	95.0	95.2	95.9	95.9	95.6	95.62
Vmax	480	91.6	94.0	94.2	95.3	95.5	95.3	95.06

CEC Efficiency = 95.0%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	274.37	229.38	92.221	274.4	229.37	92.235	274.4	229.38	92.244	274.1	229.38	92.204	274.2	229.37	92.207
20%	Vmin	650.26	229.4	94.424	651.1	229.4	94.511	651.5	229.4	94.588	651.5	229.4	94.584	651.5	229.4	94.594
30%	Vmin	937.25	229.36	95.110	936.9	229.36	95.103	937.1	229.36	95.117	937	229.36	95.105	937	229.36	95.110
50%	Vmin	1620.6	229.22	95.386	1620	229.22	95.379	1620	229.22	95.389	1620	229.22	95.384	1620	229.23	95.379
75%	Vmin	2141.9	229.08	95.192	2142	229.08	95.191	2142	229.08	95.188	2142	229.08	95.187	2142	229.08	95.187
100%	Vmin	2884.1	228.85	94.607	2884	228.85	94.610	2884	228.84	94.612	2884	228.85	94.611	2884	228.84	94.615
10%	Vnom	267.62	364.94	92.453	267.4	364.95	92.390	267.4	364.95	92.368	267.4	364.95	92.394	267.2	364.95	92.388
20%	Vnom	622.42	365.02	94.910	622	365.02	94.893	623.1	365.02	95.026	623.4	365.02	95.038	623.3	365.02	95.018
30%	Vnom	939.29	365.01	95.227	939.4	365.01	95.221	939.4	365.01	95.224	939.4	365.01	95.229	939.6	365.01	95.228
50%	Vnom	1608.8	364.95	95.896	1609	364.95	95.894	1609	364.95	95.894	1609	364.95	95.890	1609	364.96	95.893
75%	Vnom	2135.5	364.82	95.901	2135	364.83	95.898	2136	364.83	95.903	2136	364.83	95.899	2136	364.83	95.902
100%	Vnom	2863	364.69	95.553	2863	364.69	95.555	2863	364.69	95.558	2863	364.7	95.552	2864	364.7	95.554
10%	Vmax	261.15	478.55	91.862	261.1	478.55	91.911	258.5	478.59	91.044	259	478.59	91.062	260.2	478.57	91.339
20%	Vmax	627.21	478.55	93.994	627.3	478.55	94.005	626.8	478.55	94.004	626.8	478.55	94.010	626.8	478.55	94.003
30%	Vmax	946.28	478.6	94.225	946.2	478.6	94.230	945.7	478.6	94.230	945.5	478.6	94.225	946	478.6	94.228
50%	Vmax	1599.2	478.54	95.296	1599	478.53	95.296	1599	478.54	95.298	1600	478.54	95.298	1600	478.54	95.298
75%	Vmax	2146	478.36	95.481	2147	478.36	95.481	2146	478.36	95.498	2146	478.36	95.497	2146	478.36	95.496
100%	Vmax	2921.7	478.31	95.345	2921	478.31	95.341	2921	478.31	95.341	2921	478.31	95.341	2922	478.31	95.343

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	274.3	229.38	92.210	274.3	229.38	92.223									
20%	Vmin	651.57	229.4	94.588	650.5	229.4	94.426									
30%	Vmin	936.84	229.36	95.109	936.8	229.36	95.114									
50%	Vmin	1620.4	229.24	95.383	1620	229.23	95.377									
75%	Vmin	2141.9	229.08	95.187	2142	229.08	95.188									
100%	Vmin	2884.5	228.84	94.612	2884	228.84	94.611									
10%	Vnom	267.18	364.95	92.355	267.6	364.95	92.402									
20%	Vnom	623.49	365.02	95.036	623.3	365.01	95.022									
30%	Vnom	939.46	365.01	95.232	939.3	365.02	95.226									
50%	Vnom	1609	364.96	95.892	1609	364.96	95.893									
75%	Vnom	2136.2	364.82	95.902	2136	364.82	95.905									
100%	Vnom	2863.4	364.69	95.555	2863	364.69	95.551									
10%	Vmax	261.56	478.54	91.927	261.5	478.55	91.919									
20%	Vmax	626.82	478.55	93.989	626.9	478.55	93.983									
30%	Vmax	946.57	478.6	94.231	946.2	478.6	94.227									
50%	Vmax	1599.1	478.55	95.298	1600	478.55	95.300									
75%	Vmax	2146.5	478.36	95.500	2147	478.36	95.501									
100%	Vmax	2921.8	478.32	95.343	2922	478.32	95.342									