Manufacturer: Fronius International GmbH

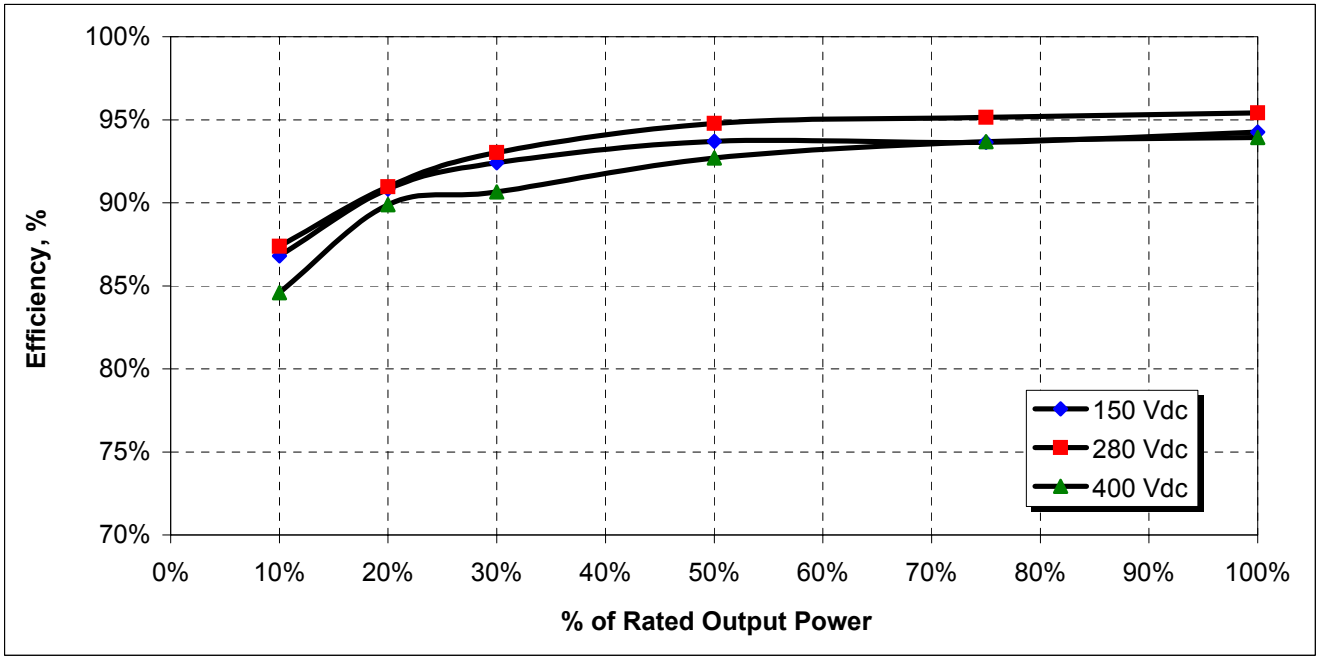
Model #: IG 2000

Rated Maximum Continuous Output Power: 2.00 kW Night Tare Loss: 0.91 W

Vmin: 150 Vdc Vnom: 280 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.20	0.40	0.60	1.00	1.50	2.00	Wtd
Vmin	150	86.8%	90.8%	92.4%	93.7%	93.6%	94.3%	93.1%
Vnom	280	87.4%	91.0%	93.0%	94.8%	95.1%	95.4%	94.3%
Vmax	400	84.6%	89.9%	90.6%	92.7%	93.7%	93.9%	92.6%

CEC Efficiency = 93.5%



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	180.699	149.98	0.865	180.7	148.88	0.875	180.73	149.39	0.847	180.72	147.86	0.884	182.23	149.96	0.865
20%	Vmin	360.419	149.33	0.909	360.42	149.29	0.909	360.4	149.29	0.908	360.41	149.3	0.909	360.4	149.16	0.910
30%	Vmin	538.727	149.17	0.925	538.74	149.22	0.924	538.72	149.26	0.924	538.73	149.02	0.925	538.75	149.18	0.923
50%	Vmin	900.531	149.19	0.937	900.56	149.15	0.937	900.54	149.14	0.938	900.56	149.28	0.936	900.54	149.2	0.937
75%	Vmin	1351.03	149.7	0.933	1352.6	149.55	0.937	1352.6	149.29	0.936	1352.6	149.31	0.937	1352.6	149.72	0.938
100%	Vmin	1797.88	152.34	0.939	1796.4	151.67	0.943	1798	151.44	0.945	1797.9	151.71	0.945	1796.5	151.9	0.941
10%	Vnom	179.2	273.39	0.826	180.71	277.55	0.908	179.2	273.91	0.823	179.2	277.15	0.874	179.19	274.39	0.857
20%	Vnom	340.074	275.9	0.912	340.06	276.44	0.887	340.07	275.75	0.920	340.07	275.18	0.933	340.08	275.74	0.904
30%	Vnom	538.72	275.98	0.931	538.73	276.17	0.927	538.71	275.9	0.932	538.74	276.04	0.931	538.72	276.11	0.930
50%	Vnom	900.554	275.89	0.948	900.53	276.07	0.947	900.52	276.08	0.949	900.56	275.93	0.949	900.55	275.93	0.949
75%	Vnom	1351.01	275.94	0.952	1351	275.8	0.951	1351	275.85	0.951	1351	275.97	0.953	1351.1	275.88	0.951
100%	Vnom	1802.29	275.36	0.953	1800.8	275.51	0.953	1802.3	275.75	0.955	1800.8	275.77	0.955	1802.3	275.67	0.955
10%	Vmax	182.257	393.21	0.842	182.23	393.21	0.842	182.24	393.21	0.837	182.25	393.21	0.859	182.24	393.21	0.854
20%	Vmax	358.957	393.3	0.852	360.39	393.3	0.880	360.39	393.3	0.915	358.96	393.3	0.904	358.97	393.3	0.910
30%	Vmax	541.454	393.18	0.906	541.44	393.18	0.908	541.43	393.18	0.908	541.44	393.18	0.906	541.43	393.18	0.905
50%	Vmax	902.076	393	0.927	903.58	393	0.929	902.06	393	0.926	903.59	393	0.928	902.04	393	0.927
75%	Vmax	1351.07	392.94	0.937	1351.1	392.94	0.936	1351.1	392.94	0.937	1351.1	392.94	0.938	1351.1	392.94	0.937
100%	Vmax	1802.32	392.97	0.939	1802.3	392.97	0.940	1802.3	392.97	0.939	1802.3	392.97	0.939	1802.3	392.97	0.939

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	182.243	148.1	0.863	180.7	149.02	0.876									
20%	Vmin	360.423	149.28	0.907	360.41	149.2	0.908									
30%	Vmin	538.738	149.31	0.924	538.74	149.36	0.923									
50%	Vmin	900.525	149.24	0.937	900.53	149.22	0.937									
75%	Vmin	1351.03	149.5	0.936	1354.1	149.68	0.938									
100%	Vmin	1796.53	151.92	0.941	1797.9	151.3	0.945									
10%	Vnom	179.192	276.4	0.920	1802.3	276.63	0.909									
20%	Vnom	340.068	276.11	0.912	340.07	277.24	0.899									
30%	Vnom	538.736	276.1	0.930	538.74	276.14	0.930									
50%	Vnom	900.557	276.04	0.946	900.54	276.01	0.947									
75%	Vnom	1351.04	275.93	0.951	1351	275.84	0.952									
100%	Vnom	1802.27	275.87	0.956	1802.3	276.09	0.951									
10%	Vmax	182.245	393.21	0.842	1802.3	393.21	0.845									
20%	Vmax	360.41	393.3	0.905	364.9	393.3	0.925									
30%	Vmax	541.445	393.18	0.905	541.44	393.18	0.907									
50%	Vmax	900.528	393	0.925	900.53	393	0.926									
75%	Vmax	1351.07	392.94	0.937	1351.1	392.94	0.936									
100%	Vmax	1802.33	392.97	0.940	1802.3	392.97	0.939									