Manufacturer: Fronius International GmbH

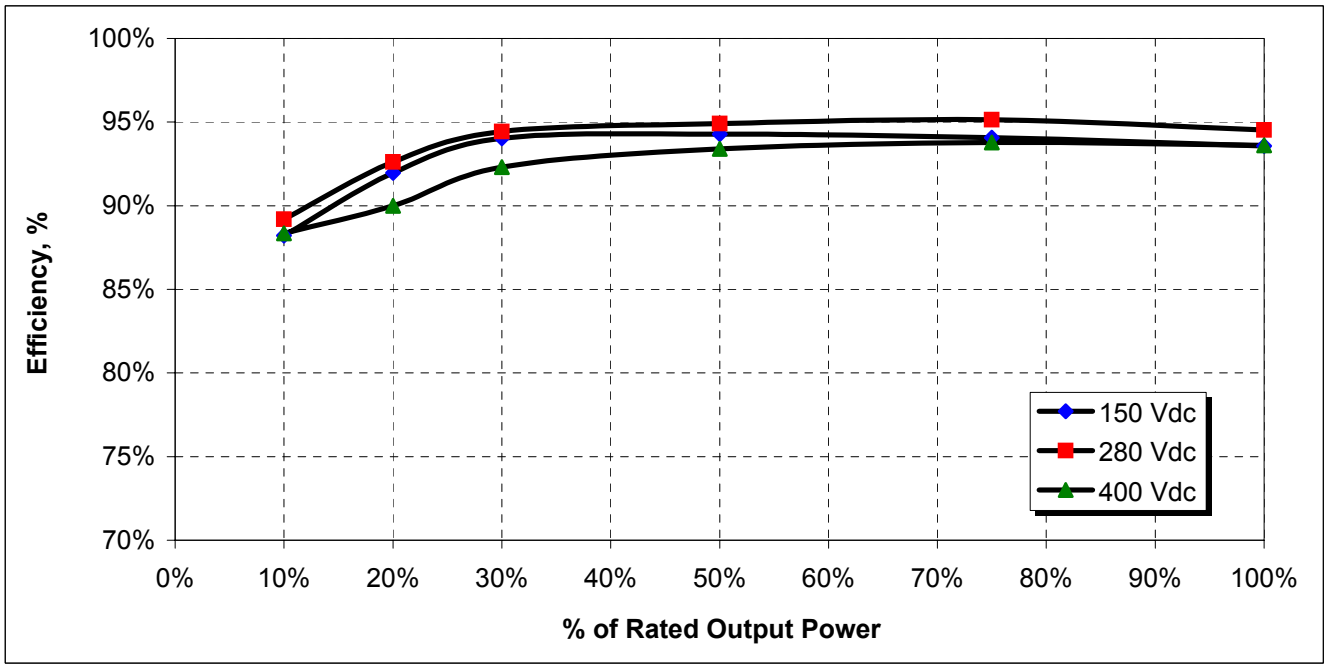
Model #: IG 3000

Rated Maximum Continuous Output Power: 2.70 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)		0.27	0.54	0.81	1.35	2.03	2.70	Wtd
Vmin	150	88.2%	92.0%	94.0%	94.3%	94.1%	93.6%	93.7%
Vnom	280	89.2%	92.6%	94.4%	94.9%	95.1%	94.5%	94.6%
Vmax	400	88.3%	90.0%	92.3%	93.4%	93.8%	93.6%	93.1%

CEC Efficiency = 94.0%



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	251.909	150.07	0.898	253.38	150.97	0.891	251.92	150.07	0.884	251.9	150.04	0.874	251.91	150.67	0.904
20%	Vmin	500.331	150.09	0.919	500.31	149.89	0.921	500.31	149.97	0.919	500.33	149.68	0.920	500.33	149.93	0.920
30%	Vmin	754.656	149.95	0.935	754.65	149.82	0.937	754.65	149.7	0.939	754.66	149.82	0.936	754.66	149.8	0.938
50%	Vmin	1255.99	149.82	0.943	1254.6	149.83	0.942	1254.6	149.7	0.944	1254.6	149.92	0.941	1256	149.9	0.943
75%	Vmin	1858.02	153.4	0.947	1868.3	153.25	0.931	1856.5	153.42	0.920	1865.4	153.36	0.949	1859.5	153.41	0.951
100%	Vmin	2494.27	156.94	0.936	2490	156.81	0.933	2495.8	156.11	0.941	2494.3	156.9	0.937	2491.6	156.36	0.936
10%	Vnom	250.403	277.58	0.871	251.92	277.54	0.884	251.91	277.23	0.897	251.93	277.5	0.870	251.92	277.07	0.916
20%	Vnom	500.317	277.29	0.927	500.32	277.3	0.919	500.31	277.27	0.928	500.31	277.15	0.919	500.31	277.24	0.932
30%	Vnom	754.669	277.29	0.945	754.65	277.3	0.939	754.63	277.16	0.943	754.65	277.11	0.944	754.66	277.18	0.946
50%	Vnom	1253.06	277.1	0.951	1254.4	277.03	0.945	1253	277.09	0.943	1251.5	277.18	0.953	1258.9	277.1	0.955
75%	Vnom	1880	277.36	0.942	1891.5	277.28	0.955	1885.5	277.13	0.953	1884.3	277.29	0.954	1891.6	277.15	0.949
100%	Vnom	2509.05	277.39	0.944	2511.9	277.35	0.937	2511.9	277.4	0.950	2500.2	277.55	0.946	2506.1	277.31	0.946
10%	Vmax	248.89	397	0.896	248.89	397	0.861	248.88	397	0.849	248.89	397	0.869	248.88	397	0.901
20%	Vmax	503.409	393.49	0.891	501.86	393.49	0.908	500.34	393.49	0.920	500.33	393.49	0.871	501.85	393.49	0.888
30%	Vmax	752.016	393.19	0.923	752.01	393.19	0.923	752.02	393.19	0.922	752.03	393.19	0.923	752.01	393.19	0.923
50%	Vmax	1251.53	394.64	0.935	1251.5	394.64	0.933	1251.5	394.64	0.933	1251.5	394.64	0.934	1251.5	394.64	0.934
75%	Vmax	1877.23	394.6	0.937	1875.9	394.6	0.937	1876	394.6	0.937	1877.2	394.6	0.939	1877.3	394.6	0.938
100%	Vmax	2497.38	394.58	0.937	2497.4	394.58	0.936	2497.4	394.58	0.936	2497.3	394.58	0.936	2497.3	394.58	0.935

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	251.912	150.25	0.852	251.92	150.05	0.872									
20%	Vmin	500.31	149.84	0.919	500.33	150.09	0.919									
30%	Vmin	754.685	149.73	0.939	754.68	149.69	0.957									
50%	Vmin	1254.59	149.75	0.943	1254.6	149.47	0.945									
75%	Vmin	1869.83	153.33	0.944	1858	153.34	0.943									
100%	Vmin	2492.91	157.62	0.931	2494.4	156.63	0.936									
10%	Vnom	251.909	277.27	0.932	2514.7	277.62	0.872									
20%	Vnom	500.335	277.41	0.929	500.33	277.35	0.930									
30%	Vnom	756.132	277.27	0.948	754.65	277.15	0.946									
50%	Vnom	1248.67	277.08	0.949	1256	277.1	0.947									
75%	Vnom	1884.24	277.19	0.954	1785.7	277.12	0.952									
100%	Vnom	2510.36	277.58	0.950	2508.8	277.36	0.944									
10%	Vmax	247.497	397	0.902	2497.4	397	0.906									
20%	Vmax	503.392	393.49	0.911	503.4	393.49	0.910									
30%	Vmax	752.023	393.19	0.923	752.01	393.19	0.924									
50%	Vmax	1251.53	394.64	0.935	1251.5	394.64	0.933									
75%	Vmax	1877.25	394.6	0.938	1875.9	394.6	0.937									
100%	Vmax	2497.38	394.58	0.935	2497.4	394.58	0.936									