Manufacturer: Fronius International GmbH

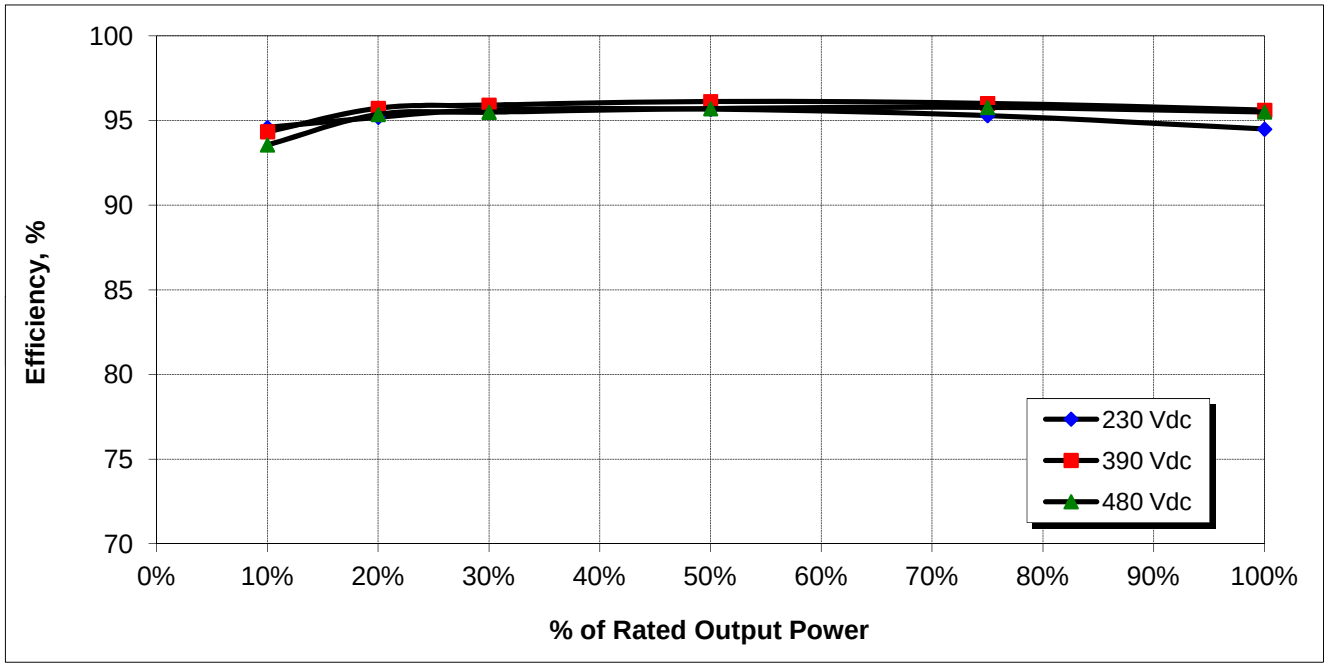
Model #: Fronius IG Plus A 11.4-1 UNI 240Vac

Rated Maximum Continuous Output Power @25°C: 11.4 kW Night Tare Loss: 1.00 W
Rated Maximum Continuous Output Power @40°C: 11.4 kW Night Tare Loss: 1.00 W

Vmin: 230 Vdc Vnom: 390 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.14	2.28	3.42	5.70	8.55	11.40	Wtd
Vmin	230	94.6	95.2	95.6	95.7	95.3	94.5	95.33
Vnom	390	94.3	95.7	95.9	96.1	96.0	95.6	95.92
Vmax	480	93.6	95.4	95.5	95.7	95.8	95.5	95.60

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	1129.38	229.03	94.56	1129.44	229.03	94.59	1129.11	229.02	94.56	1129.41	229.03	94.59	1129.86	229.03	94.60
20%	Vmin	2470.07	228.72	95.20	2470.43	228.73	95.19	2470.08	228.73	95.19	2469.73	228.72	95.18	2470.10	228.72	95.19
30%	Vmin	3631.28	229.26	95.61	3632.14	229.26	95.62	3631.78	229.26	95.62	3632.23	229.26	95.64	3632.04	229.26	95.61
50%	Vmin	5923.66	229.40	95.67	5923.88	229.39	95.67	5923.66	229.39	95.67	5922.78	229.38	95.66	5922.95	229.38	95.67
75%	Vmin	8024.22	229.28	95.28	8023.89	229.28	95.28	8024.53	229.29	95.28	8024.26	229.28	95.29	8024.91	229.29	95.29
100%	Vmin	######	229.21	94.49	10847.00	229.22	94.50	10846.77	229.21	94.50	10847.60	229.22	94.50	10846.20	229.21	94.49
10%	Vnom	1106.06	388.60	94.37	1106.27	388.60	94.33	1106.10	388.60	94.36	1106.10	388.60	94.34	1104.99	388.60	94.31
20%	Vnom	2465.11	388.77	95.71	2464.80	388.77	95.73	2465.44	388.77	95.72	2465.18	388.78	95.72	2465.17	388.77	95.72
30%	Vnom	3667.57	388.39	95.90	3668.03	388.39	95.89	3668.38	388.40	95.88	3667.38	388.39	95.91	3667.49	388.40	95.92
50%	Vnom	5966.18	388.69	96.10	5965.86	388.69	96.12	5966.17	388.69	96.12	5966.12	388.69	96.11	5965.55	388.69	96.13
75%	Vnom	8026.96	388.90	96.01	8026.64	388.90	96.01	8027.11	388.90	96.02	8028.08	388.89	96.01	8028.69	388.90	96.01
100%	Vnom	######	388.86	95.61	10853.10	388.85	95.61	10853.27	388.85	95.61	10853.27	388.86	95.61	10854.03	388.86	95.60
10%	Vmax	1083.66	478.57	93.58	1084.15	478.57	93.57	1083.54	478.57	93.55	1083.50	478.57	93.55	1085.08	478.57	93.55
20%	Vmax	2474.26	478.19	95.35	2473.50	478.18	95.36	2473.35	478.17	95.36	2473.25	478.17	95.37	2473.03	478.17	95.35
30%	Vmax	3672.90	478.29	95.49	3672.83	478.28	95.50	3672.45	478.28	95.48	3673.38	478.30	95.49	3672.48	478.29	95.50
50%	Vmax	5935.66	478.64	95.71	5937.05	478.64	95.71	5937.03	478.64	95.69	5936.36	478.65	95.70	5936.85	478.65	95.70
75%	Vmax	8053.25	478.29	95.77	8052.53	478.28	95.76	8052.35	478.28	95.76	8052.87	478.28	95.77	8053.04	478.28	95.77
100%	Vmax	######	478.48	95.50	10878.63	478.49	95.51	10878.70	478.49	95.50	10878.07	478.49	95.51	10877.83	478.48	95.51

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	1129.54	229.03	94.59	1129.42	229.03	94.62									
20%	Vmin	2470.26	228.72	95.18	2470.18	228.73	95.17									
30%	Vmin	3632.53	229.26	95.63	3631.84	229.25	95.62									
50%	Vmin	5922.59	229.38	95.67	5922.96	229.38	95.67									
75%	Vmin	8024.51	229.28	95.29	8025.12	229.28	95.29									
100%	Vmin	######	229.21	94.50	10846.30	229.21	94.49									
10%	Vnom	1105.80	388.59	94.32	1104.84	388.60	94.30									
20%	Vnom	2465.85	388.77	95.72	2466.06	388.77	95.71									
30%	Vnom	3667.05	388.39	95.89	3667.14	388.39	95.92									
50%	Vnom	5966.54	388.69	96.12	5966.41	388.69	96.12									
75%	Vnom	8027.68	388.90	96.01	8028.10	388.90	96.02									
100%	Vnom	######	388.86	95.60	10854.90	388.86	95.61									
10%	Vmax	1083.66	478.57	93.53	1084.32	478.58	93.60									
20%	Vmax	2473.41	478.17	95.35	2473.06	478.17	95.38									
30%	Vmax	3672.27	478.28	95.48	3672.39	478.29	95.50									
50%	Vmax	5935.70	478.65	95.70	5935.81	478.64	95.70									
75%	Vmax	8052.66	478.28	95.77	8054.01	478.28	95.77									
100%	Vmax	######	478.48	95.51	10878.07	478.49	95.51									