Manufacturer: Fronius International GmbH

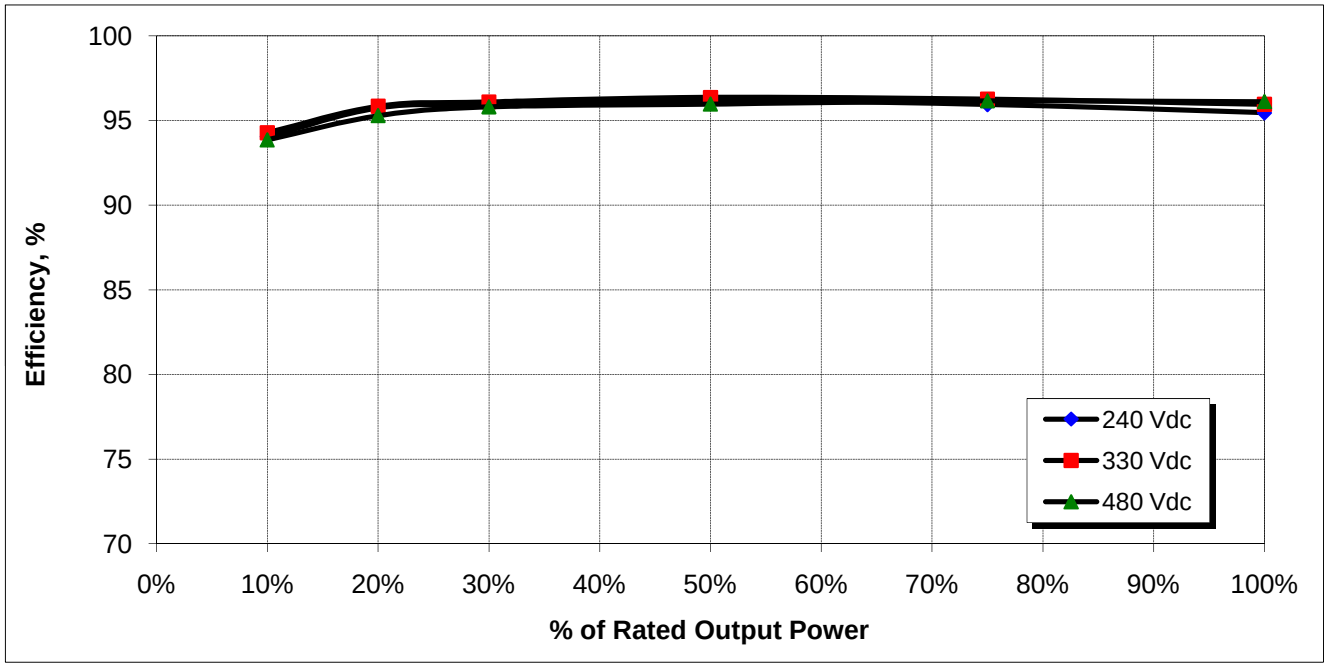
Model #: Fronius IG Plus V 7.5-1 UNI 277Vac

Rated Maximum Continuous Output Power @25°C: 7.5 kW Night Tare Loss: 1.10 W
Rated Maximum Continuous Output Power @40°C: 7.5 kW Night Tare Loss: 1.10 W

Vmin: 240 Vdc Vnom: 330 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.75	1.50	2.25	3.75	5.63	7.50	Wtd
Vmin	240	94.0	95.7	95.9	96.2	95.9	95.4	95.88
Vnom	330	94.3	95.8	96.1	96.4	96.3	96.0	96.14
Vmax	480	93.9	95.3	95.8	96.0	96.2	96.1	95.94

CEC Efficiency = 96.0%



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	721.73	239.08	94.12	722.07	239.07	94.11	721.31	239.07	94.08	721.80	239.06	94.10	720.48	239.07	93.97
20%	Vmin	1606.85	238.98	95.70	1607.31	238.98	95.75	1607.03	238.99	95.73	1607.10	238.98	95.71	1607.15	238.98	95.75
30%	Vmin	2093.63	238.93	95.94	2093.92	238.94	95.93	2094.10	238.93	95.91	2093.56	238.93	95.92	2094.33	238.94	95.93
50%	Vmin	4063.18	239.01	96.16	4063.09	239.02	96.16	4062.55	239.01	96.15	4062.50	239.01	96.16	4062.41	239.01	96.15
75%	Vmin	5274.05	238.96	95.94	5273.87	238.96	95.95	5273.78	238.96	95.94	5274.00	238.96	95.95	5274.40	238.96	95.95
100%	Vmin	7133.75	238.82	95.45	7134.62	238.82	95.45	7135.18	238.82	95.45	7134.71	238.82	95.45	7135.58	238.82	95.45
10%	Vnom	718.46	329.32	94.26	719.24	329.33	94.29	718.46	329.32	94.26	718.40	329.32	94.28	718.66	329.33	94.25
20%	Vnom	1612.32	328.78	95.83	1611.56	328.78	95.85	1611.62	328.78	95.82	1610.82	328.78	95.84	1611.92	328.78	95.86
30%	Vnom	2094.19	329.18	96.07	2094.25	329.18	96.09	2093.55	329.18	96.10	2093.48	329.18	96.11	2094.25	329.17	96.09
50%	Vnom	4072.40	328.83	96.36	4073.34	328.83	96.36	4072.16	328.83	96.35	4071.60	328.83	96.37	4070.78	328.83	96.37
75%	Vnom	5284.50	329.25	96.26	5284.81	329.25	96.26	5284.99	329.25	96.26	5285.20	329.25	96.26	5284.67	329.25	96.26
100%	Vnom	7138.06	329.12	95.95	7137.95	329.12	95.96	7137.05	329.12	95.95	7137.85	329.12	95.96	7138.04	329.12	95.96
10%	Vmax	721.83	478.17	94.03	721.51	478.17	93.75	721.44	478.17	93.83	721.14	478.17	93.87	722.29	478.17	93.85
20%	Vmax	1607.89	478.75	95.29	1607.02	478.75	95.28	1606.84	478.76	95.25	1607.78	478.76	95.29	1608.25	478.75	95.30
30%	Vmax	2116.08	478.12	95.79	2116.34	478.12	95.82	2115.86	478.11	95.81	2116.13	478.11	95.83	2115.42	478.12	95.78
50%	Vmax	4107.68	478.86	95.96	4107.53	478.85	95.97	4107.78	478.85	95.96	4108.94	478.86	95.97	4109.66	478.85	95.97
75%	Vmax	5272.85	478.72	96.16	5273.81	478.72	96.15	5273.34	478.72	96.17	5272.93	478.72	96.15	5272.06	478.72	96.15
100%	Vmax	7161.77	478.64	96.12	7161.70	478.64	96.11	7161.54	478.63	96.11	7161.76	478.63	96.10	7162.52	478.64	96.11

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	721.04	239.07	94.01	720.79	239.08	93.94									
20%	Vmin	1606.61	238.99	95.74	1607.19	238.99	95.74									
30%	Vmin	2093.94	238.94	95.93	2094.01	238.94	95.93									
50%	Vmin	4061.66	239.01	96.13	4062.68	239.01	96.14									
75%	Vmin	5273.26	238.96	95.95	5273.54	238.96	95.95									
100%	Vmin	7134.66	238.82	95.45	7134.11	238.82	95.45									
10%	Vnom	718.46	329.32	94.29	718.99	329.32	94.28									
20%	Vnom	1611.75	328.78	95.82	1611.73	328.78	95.83									
30%	Vnom	2095.12	329.18	96.11	2095.23	329.18	96.10									
50%	Vnom	4070.57	328.83	96.35	4070.41	328.83	96.35									
75%	Vnom	5284.85	329.25	96.25	5285.66	329.26	96.27									
100%	Vnom	7137.41	329.12	95.95	7137.55	329.12	95.96									
10%	Vmax	721.77	478.17	93.88	722.06	478.17	93.81									
20%	Vmax	1607.72	478.75	95.30	1607.31	478.75	95.27									
30%	Vmax	2115.32	478.11	95.80	2115.32	478.12	95.81									
50%	Vmax	4109.04	478.86	95.96	4109.12	478.85	95.97									
75%	Vmax	5273.05	478.73	96.16	5273.33	478.72	96.16									
100%	Vmax	7161.47	478.64	96.12	7161.67	478.64	96.11									