Manufacturer: Fronius USA

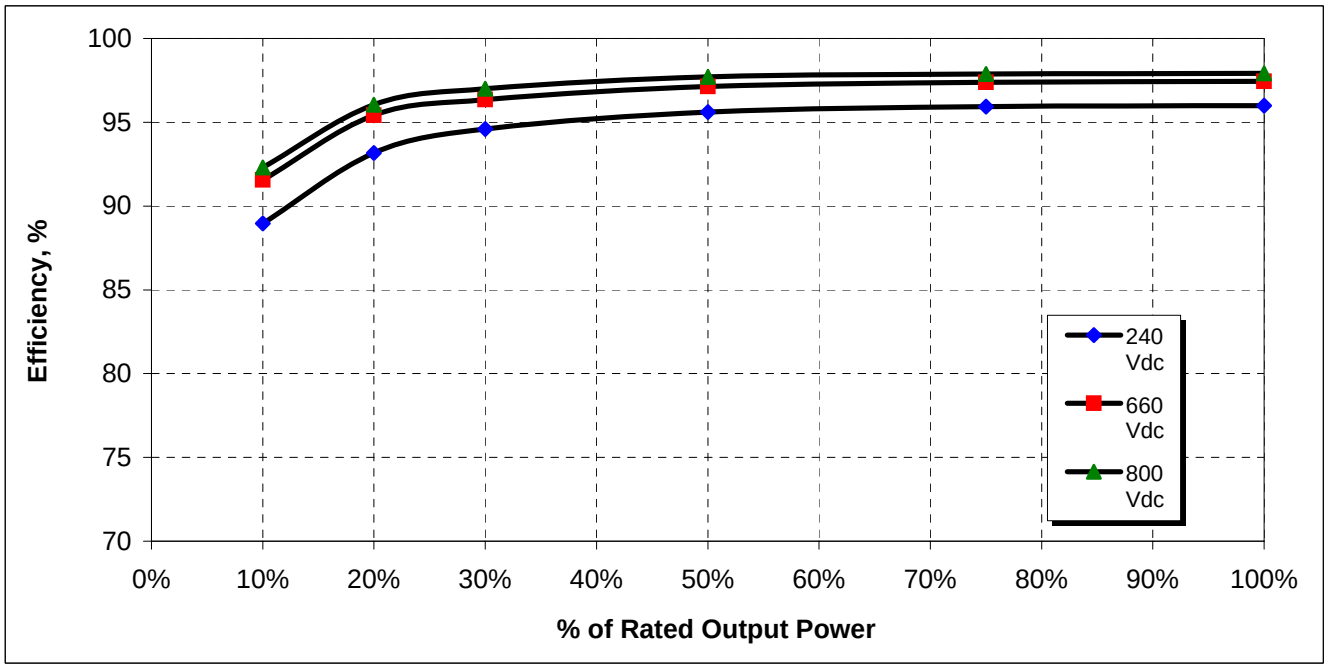
Model #: Fronius Primo 5.0-1 208-240 at 240Vac

Rated Maximum Continuous Output Power: 5.000 kW Night Tare Loss: 0.6 W

Vmin: 240 Vdc Vnom: 660 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	240	89.0	93.2	94.6	95.6	95.9	96.0	95.3
Vnom	660	91.6	95.4	96.4	97.1	97.4	97.4	96.9
Vmax	800	92.3	96.0	97.0	97.7	97.9	97.9	97.4

CEC Efficiency = 96.5%



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	489.67	240.58	88.93	490.20	240.58	88.96	489.82	240.58	88.96	490.05	240.57	88.96	489.68	240.58	88.96
20%	Vmin	1088.60	240.76	93.17	1088.90	240.76	93.17	1088.40	240.76	93.17	1088.77	240.76	93.16	1088.70	240.76	93.15
30%	Vmin	1621.03	240.79	94.60	1621.13	240.78	94.60	1620.60	240.78	94.61	1620.30	240.78	94.60	1620.07	240.78	94.59
50%	Vmin	2742.47	240.83	95.60	2742.23	240.83	95.60	2741.53	240.83	95.59	2742.57	240.83	95.60	2742.57	240.83	95.61
75%	Vmin	3992.87	240.89	95.94	3992.73	240.88	95.94	3993.07	240.88	95.94	3993.60	240.88	95.94	3992.80	240.88	95.93
100%	Vmin	4751.50	240.92	96.01	4751.47	240.92	96.01	4750.73	240.92	95.99	4750.77	240.92	95.99	4751.50	240.92	96.00
10%	Vnom	486.38	658.37	91.57	486.30	658.35	91.57	487.34	658.36	91.53	486.18	658.36	91.57	484.90	658.36	91.56
20%	Vnom	1094.30	658.41	95.47	1094.07	658.42	95.42	1094.27	658.42	95.42	1093.90	658.41	95.42	1092.53	658.42	95.41
30%	Vnom	1612.23	658.43	96.34	1610.90	658.43	96.36	1613.30	658.45	96.37	1616.07	658.43	96.35	1613.37	658.43	96.35
50%	Vnom	2744.73	658.46	97.15	2744.00	658.47	97.15	2745.50	658.46	97.14	2746.30	658.46	97.15	2748.10	658.46	97.15
75%	Vnom	3980.03	658.48	97.39	3980.90	658.47	97.39	3980.07	658.47	97.39	3979.53	658.47	97.38	3980.77	658.47	97.40
100%	Vnom	4762.63	658.49	97.44	4762.83	658.49	97.44	4762.00	658.49	97.43	4762.43	658.49	97.44	4763.07	658.49	97.44
10%	Vmax	486.74	801.34	92.31	486.50	801.33	92.33	482.14	801.34	92.26	483.90	801.34	92.25	485.37	801.35	92.35
20%	Vmax	1071.80	801.37	96.02	1071.37	801.38	96.00	1069.93	801.38	96.03	1068.60	801.39	96.06	1070.43	801.40	96.05
30%	Vmax	1610.73	801.43	97.00	1612.50	801.44	97.01	1610.87	801.43	96.99	1611.63	801.45	96.99	1615.33	801.43	97.01
50%	Vmax	2742.97	801.44	97.71	2743.70	801.46	97.70	2742.80	801.46	97.70	2744.97	801.46	97.71	2746.00	801.46	97.70
75%	Vmax	3991.50	801.49	97.88	3994.60	801.49	97.89	3993.93	801.48	97.89	3993.10	801.50	97.88	3993.53	801.48	97.89
100%	Vmax	5244.90	801.55	97.91	5243.10	801.54	97.91	5245.07	801.55	97.92	5245.43	801.54	97.92	5246.50	801.54	97.91

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	489.89	240.57	88.97	489.99	240.58	88.95									
20%	Vmin	1088.43	240.75	93.17	1088.83	240.76	93.16									
30%	Vmin	1620.83	240.77	94.60	1620.80	240.79	94.60									
50%	Vmin	2742.57	240.83	95.60	2742.33	240.82	95.61									
75%	Vmin	3992.70	240.88	95.94	3993.33	240.88	95.93									
100%	Vmin	4750.57	240.92	95.99	4750.00	240.91	95.98									
10%	Vnom	486.35	658.36	91.58	486.66	658.36	91.51									
20%	Vnom	1092.53	658.41	95.40	1094.07	658.42	95.43									
30%	Vnom	1613.73	658.44	96.36	1612.80	658.45	96.36									
50%	Vnom	2746.47	658.46	97.14	2747.63	658.46	97.14									
75%	Vnom	3980.20	658.46	97.38	3977.60	658.47	97.38									
100%	Vnom	4762.00	658.49	97.43	4765.37	658.48	97.44									
10%	Vmax	483.96	801.34	92.33	484.59	801.35	92.33									
20%	Vmax	1073.00	801.40	96.07	1073.03	801.40	96.07									
30%	Vmax	1614.30	801.44	97.00	1614.97	801.45	97.01									
50%	Vmax	2748.37	801.47	97.70	2745.47	801.46	97.71									
75%	Vmax	3992.80	801.50	97.89	3991.67	801.49	97.88									
100%	Vmax	5246.40	801.54	97.91	5244.50	801.55	97.91									