Manufacturer: Fronius USA

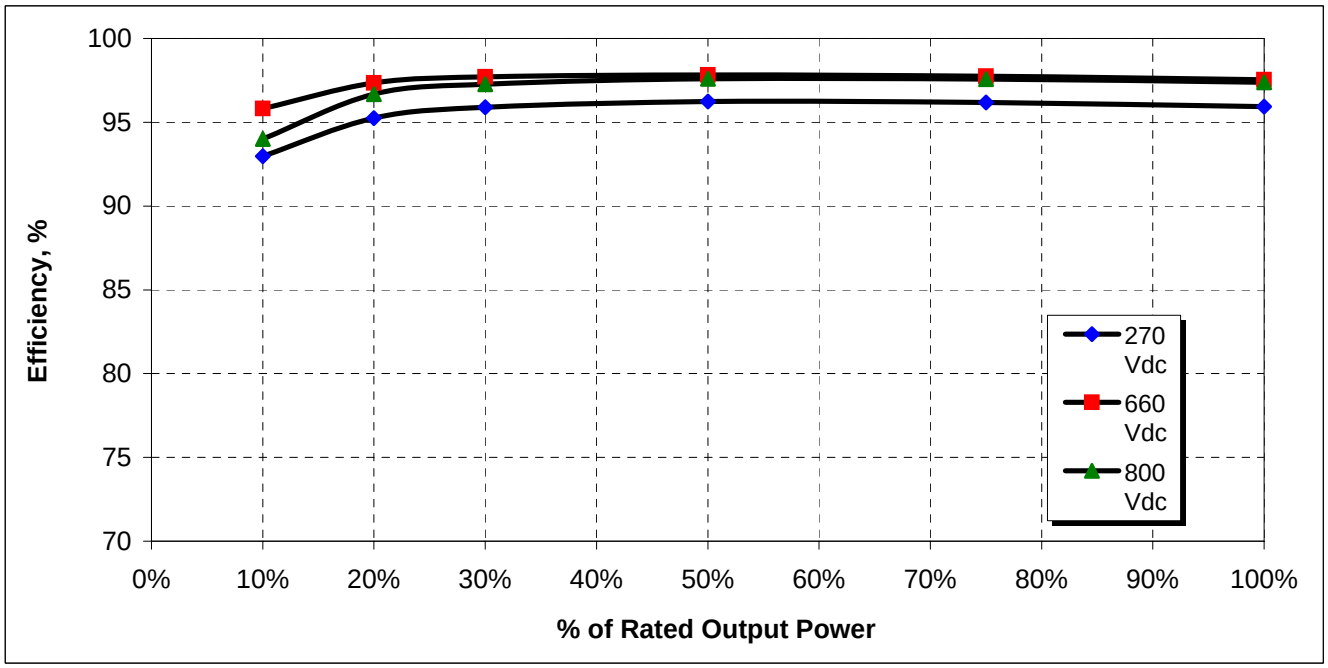
Model #: Fronius Primo 8.2-1 208-240 at 208Vac

Rated Maximum Continuous Output Power: 7.900 kW Night Tare Loss: 0.4 W

Vmin: 270 Vdc Vnom: 660 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.79	1.58	2.37	3.95	5.93	7.90	Wtd
Vmin	270	93.0	95.3	95.9	96.2	96.2	95.9	96.0
Vnom	660	95.8	97.3	97.7	97.8	97.8	97.5	97.7
Vmax	800	94.0	96.7	97.3	97.6	97.6	97.4	97.3

CEC Efficiency = 97.0%



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	774.03	270.73	92.95	774.04	270.73	92.96	773.10	270.72	92.96	773.60	270.73	92.98	773.66	270.72	92.98
20%	Vmin	1723.00	270.85	95.25	1722.97	270.85	95.25	1722.97	270.84	95.26	1722.37	270.85	95.25	1722.63	270.85	95.24
30%	Vmin	2554.03	270.89	95.89	2553.70	270.88	95.88	2554.03	270.89	95.89	2554.00	270.88	95.90	2554.00	270.88	95.88
50%	Vmin	4333.90	270.95	96.24	4332.57	270.95	96.23	4333.93	270.94	96.24	4333.43	270.94	96.23	4333.23	270.93	96.22
75%	Vmin	5532.70	271.03	96.20	5531.50	271.01	96.19	5531.33	271.02	96.19	5531.47	271.01	96.19	5530.13	271.01	96.17
100%	Vmin	7517.93	271.09	95.94	7517.33	271.09	95.94	7516.83	271.10	95.93	7517.50	271.09	95.94	7517.73	271.09	95.95
10%	Vnom	769.85	661.50	95.84	769.35	661.49	95.84	769.23	661.49	95.81	768.26	661.50	95.81	768.36	661.50	95.81
20%	Vnom	1722.00	661.56	97.40	1720.83	661.56	97.36	1720.60	661.55	97.33	1718.90	661.54	97.33	1717.00	661.56	97.32
30%	Vnom	2551.13	661.60	97.70	2550.33	661.61	97.70	2551.37	661.60	97.71	2550.77	661.60	97.71	2548.80	661.60	97.69
50%	Vnom	4341.40	661.72	97.82	4341.47	661.70	97.83	4340.63	661.71	97.83	4341.57	661.70	97.82	4340.47	661.69	97.82
75%	Vnom	5540.93	661.78	97.75	5539.90	661.78	97.75	5542.17	661.77	97.76	5542.60	661.77	97.75	5542.73	661.77	97.75
100%	Vnom	7510.23	661.84	97.54	7509.77	661.84	97.54	7508.07	661.83	97.53	7508.23	661.84	97.54	7508.33	661.84	97.54
10%	Vmax	752.79	801.59	93.93	754.51	801.60	93.96	755.29	801.60	94.00	755.88	801.60	94.02	754.61	801.60	94.02
20%	Vmax	1706.07	801.66	96.69	1704.53	801.67	96.69	1706.07	801.67	96.68	1703.60	801.67	96.69	1704.17	801.68	96.67
30%	Vmax	2539.33	801.72	97.27	2538.17	801.73	97.27	2539.67	801.73	97.27	2539.50	801.73	97.27	2535.73	801.73	97.27
50%	Vmax	4324.97	801.78	97.60	4324.60	801.78	97.59	4320.90	801.79	97.58	4322.57	801.79	97.60	4322.37	801.80	97.59
75%	Vmax	5551.07	801.83	97.57	5552.67	801.82	97.58	5552.97	801.85	97.58	5554.40	801.85	97.58	5553.93	801.85	97.58
100%	Vmax	7511.20	801.90	97.39	7511.93	801.90	97.39	7511.37	801.90	97.38	7512.33	801.89	97.38	7513.90	801.90	97.39

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	773.14	270.72	92.96	774.19	270.71	92.97									
20%	Vmin	1723.10	270.85	95.25	1722.83	270.84	95.25									
30%	Vmin	2554.30	270.88	95.89	2555.13	270.88	95.89									
50%	Vmin	4332.73	270.94	96.22	4333.37	270.94	96.23									
75%	Vmin	5531.23	271.01	96.18	5532.23	271.01	96.18									
100%	Vmin	7516.27	271.09	95.93	7516.20	271.09	95.93									
10%	Vnom	768.97	661.49	95.80	770.36	661.50	95.84									
20%	Vnom	1716.27	661.55	97.32	1718.30	661.55	97.34									
30%	Vnom	2546.80	661.60	97.70	2549.63	661.60	97.70									
50%	Vnom	4341.50	661.70	97.83	4342.87	661.70	97.81									
75%	Vnom	5542.27	661.76	97.75	5542.47	661.76	97.76									
100%	Vnom	7507.03	661.84	97.53	7509.60	661.84	97.53									
10%	Vmax	753.79	801.61	94.01	756.37	801.61	94.03									
20%	Vmax	1704.43	801.67	96.66	1703.93	801.68	96.67									
30%	Vmax	2536.03	801.74	97.28	2538.07	801.72	97.27									
50%	Vmax	4321.37	801.79	97.58	4320.10	801.80	97.58									
75%	Vmax	5554.20	801.85	97.59	5554.40	801.86	97.57									
100%	Vmax	7513.07	801.90	97.39	7513.60	801.91	97.38									