Manufacturer: Fronius USA

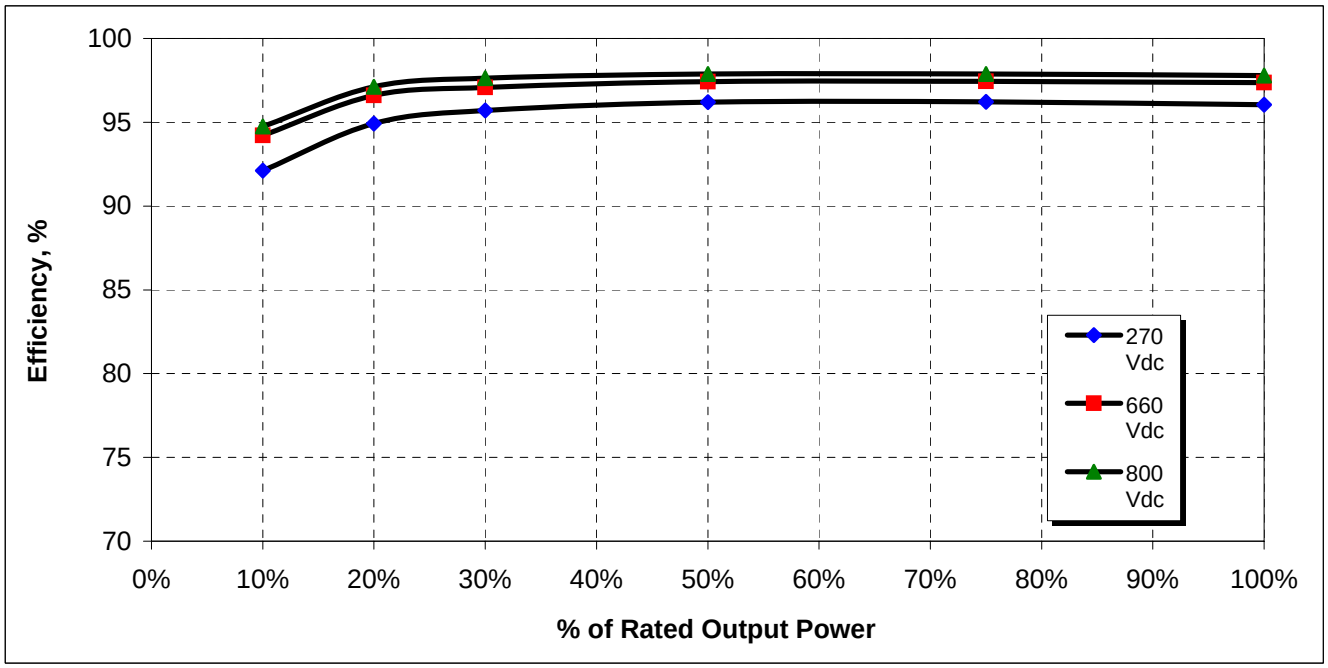
Model #: Fronius Primo 8.2-1 208-240 at 240Vac

Rated Maximum Continuous Output Power: 8.200 kW Night Tare Loss: 0.6 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.82	1.64	2.46	4.10	6.15	8.20	Wtd
Vmin	270	92.1	94.9	95.7	96.2	96.2	96.1	95.9
Vnom	660	94.2	96.6	97.1	97.4	97.4	97.4	97.2
Vmax	800	94.7	97.1	97.6	97.9	97.9	97.8	97.7

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	797.44	270.68	92.13	797.07	270.71	92.10	797.35	270.71	92.12	796.80	270.69	92.11	796.46	270.71	92.09
20%	Vmin	1787.50	270.85	94.92	1786.70	270.85	94.92	1787.07	270.84	94.92	1787.10	270.84	94.92	1786.83	270.85	94.92
30%	Vmin	2656.30	270.88	95.71	2656.33	270.87	95.70	2656.33	270.88	95.69	2655.83	270.87	95.70	2655.70	270.88	95.70
50%	Vmin	4500.33	270.94	96.20	4500.67	270.95	96.20	4500.87	270.94	96.20	4499.73	270.94	96.19	4499.87	270.93	96.19
75%	Vmin	5742.83	270.97	96.22	5742.33	270.98	96.21	5742.23	270.97	96.20	5742.20	270.97	96.21	5741.67	270.97	96.22
100%	Vmin	7790.83	271.07	96.05	7792.30	271.07	96.06	7791.57	271.06	96.05	7791.43	271.07	96.05	7792.57	271.07	96.06
10%	Vnom	791.14	660.42	94.29	789.47	660.40	94.29	787.57	660.41	94.20	787.45	660.41	94.16	789.31	660.41	94.18
20%	Vnom	1786.40	660.43	96.57	1787.47	660.44	96.58	1788.93	660.44	96.58	1789.47	660.44	96.60	1789.03	660.44	96.59
30%	Vnom	2640.47	660.45	97.08	2641.07	660.45	97.08	2641.70	660.45	97.08	2639.03	660.44	97.08	2640.70	660.45	97.09
50%	Vnom	4497.17	660.46	97.42	4495.20	660.46	97.41	4496.93	660.46	97.42	4496.47	660.47	97.42	4494.17	660.46	97.41
75%	Vnom	5755.33	660.47	97.43	5755.70	660.47	97.45	5753.73	660.46	97.44	5754.90	660.47	97.44	5756.90	660.46	97.44
100%	Vnom	7793.27	660.53	97.36	7795.27	660.53	97.35	7795.63	660.52	97.36	7796.23	660.53	97.36	7794.80	660.52	97.35
10%	Vmax	759.44	801.34	94.72	758.85	801.35	94.72	759.75	801.36	94.76	759.24	801.35	94.75	759.15	801.37	94.77
20%	Vmax	1779.13	801.43	97.11	1779.40	801.43	97.10	1780.97	801.44	97.11	1781.63	801.43	97.13	1780.70	801.42	97.11
30%	Vmax	2636.90	801.43	97.64	2638.43	801.43	97.64	2638.13	801.43	97.63	2638.00	801.43	97.63	2638.20	801.43	97.62
50%	Vmax	4501.93	801.50	97.87	4502.17	801.51	97.89	4501.40	801.50	97.89	4504.00	801.50	97.87	4507.33	801.50	97.88
75%	Vmax	5763.23	801.54	97.88	5764.13	801.54	97.89	5763.07	801.54	97.89	5762.53	801.55	97.88	5761.00	801.54	97.88
100%	Vmax	7814.47	801.60	97.79	7814.93	801.59	97.78	7816.20	801.58	97.79	7813.83	801.59	97.80	7813.87	801.58	97.79

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	796.40	270.70	92.11	797.31	270.68	92.12									
20%	Vmin	1787.17	270.85	94.93	1787.03	270.84	94.94									
30%	Vmin	2654.43	270.86	95.69	2655.13	270.87	95.70									
50%	Vmin	4500.67	270.94	96.19	4499.83	270.93	96.18									
75%	Vmin	5741.77	270.97	96.20	5741.87	270.98	96.21									
100%	Vmin	7792.70	271.07	96.05	7792.23	271.07	96.05									
10%	Vnom	790.16	660.40	94.18	788.32	660.40	94.17									
20%	Vnom	1790.53	660.45	96.60	1787.77	660.45	96.62									
30%	Vnom	2642.10	660.45	97.09	2638.03	660.44	97.08									
50%	Vnom	4495.17	660.47	97.42	4495.23	660.45	97.42									
75%	Vnom	5756.00	660.46	97.44	5753.00	660.46	97.44									
100%	Vnom	7796.80	660.53	97.36	7796.37	660.52	97.36									
10%	Vmax	759.58	801.37	94.77	758.53	801.37	94.76									
20%	Vmax	1781.63	801.42	97.12	1782.23	801.42	97.14									
30%	Vmax	2638.00	801.43	97.61	2637.07	801.43	97.61									
50%	Vmax	4504.87	801.50	97.88	4503.43	801.50	97.88									
75%	Vmax	5762.47	801.55	97.89	5762.03	801.55	97.89									
100%	Vmax	7813.33	801.58	97.80	7814.43	801.59	97.80									