Manufacturer: Fronius International GmbH

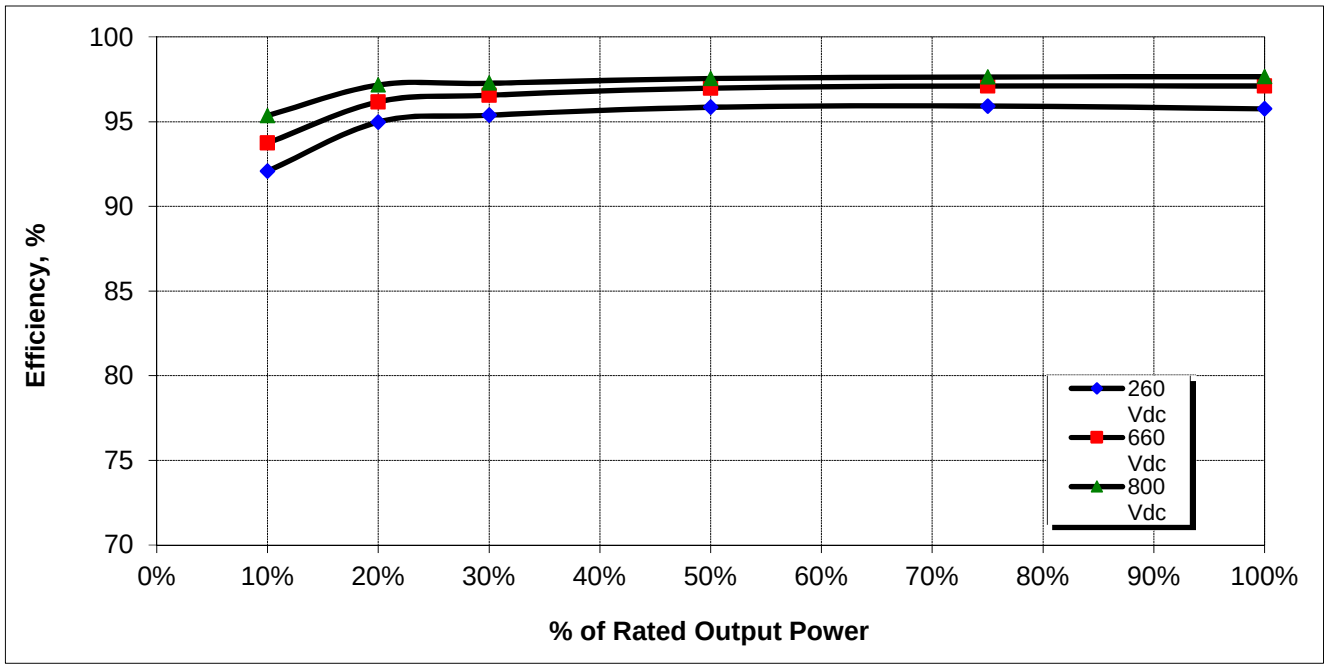
Model #: Fronius Primo 12.5-1 208-240 @ 240Vac

Rated Maximum Continuous Output Power: 12.50 kW Night Tare Loss: 0.32 W

Vmin: 260 Vdc Vnom: 660 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.25	2.50	3.75	6.25	9.38	12.50	Wtd
Vmin	260	92.1	95.0	95.4	95.9	95.9	95.8	95.6
Vnom	660	93.7	96.2	96.6	97.0	97.1	97.1	96.8
Vmax	800	95.4	97.2	97.3	97.5	97.6	97.7	97.5

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	1228.22	262.26	92.09	1228.06	262.25	92.10	1228.69	262.26	92.03	1229.04	262.25	92.08	1229.66	262.24	92.09
20%	Vmin	2734.97	262.25	94.99	2735.48	262.25	94.96	2735.36	262.25	94.98	2735.06	262.26	94.97	2735.87	262.24	95.04
30%	Vmin	4034.08	261.99	95.38	4034.40	262.03	95.36	4034.35	262.02	95.37	4034.91	262.02	95.38	4034.74	261.99	95.38
50%	Vmin	6849.39	261.91	95.88	6849.46	261.91	95.88	6849.12	261.92	95.89	6849.56	261.94	95.85	6849.29	261.92	95.88
75%	Vmin	8783.71	261.84	95.92	8783.16	261.84	95.93	8782.96	261.85	95.93	8783.01	261.84	95.93	8783.08	261.85	95.91
100%	Vmin	11897.97	261.78	95.76	11897.83	261.78	95.76	11898.57	261.80	95.75	11897.63	261.78	95.77	11897.03	261.79	95.75
10%	Vnom	1234.11	657.05	93.70	1232.90	657.05	93.64	1233.02	657.04	93.63	1233.20	657.04	93.61	1232.55	657.03	93.74
20%	Vnom	2723.19	656.93	96.13	2722.82	656.92	96.22	2722.05	656.92	96.20	2722.20	656.93	96.22	2721.42	656.93	96.17
30%	Vnom	4041.74	656.86	96.55	4041.99	656.86	96.54	4041.35	656.87	96.54	4041.48	656.87	96.53	4042.38	656.74	96.66
50%	Vnom	6851.56	656.83	97.01	6851.72	656.83	96.98	6851.49	656.83	96.97	6851.18	656.83	96.98	6851.38	656.83	96.97
75%	Vnom	8783.44	656.82	97.12	8782.46	656.82	97.06	8783.28	656.83	97.09	8783.74	656.83	97.10	8784.41	656.83	97.08
100%	Vnom	11892.43	656.85	97.10	11892.50	656.83	97.10	11893.87	656.84	97.13	11893.17	656.83	97.10	11892.40	656.86	97.11
10%	Vmax	1245.10	796.27	95.31	1247.32	796.27	95.35	1247.73	796.27	95.32	1246.43	796.27	95.40	1247.23	796.27	95.20
20%	Vmax	2724.44	796.34	97.15	2726.50	796.34	97.10	2725.50	796.34	97.13	2724.32	796.34	97.23	2723.33	796.34	97.18
30%	Vmax	4032.93	796.37	97.25	4033.42	796.38	97.31	4033.80	796.38	97.22	4034.49	796.38	97.28	4033.66	796.37	97.26
50%	Vmax	6862.27	796.45	97.55	6862.51	796.45	97.51	6863.41	796.45	97.55	6862.66	796.45	97.56	6864.22	796.45	97.56
75%	Vmax	8774.76	796.50	97.63	8775.98	796.50	97.63	8775.47	796.50	97.66	8775.74	796.50	97.62	8774.15	796.50	97.64
100%	Vmax	11900.77	796.57	97.67	11900.80	796.58	97.64	11901.20	796.57	97.66	11899.17	796.57	97.62	11897.87	796.57	97.68

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	1229.42	262.25	92.09	1229.12	262.24	92.08									
20%	Vmin	2735.70	262.27	94.98	2735.14	262.28	94.92									
30%	Vmin	4034.58	262.00	95.40	4034.31	262.00	95.38									
50%	Vmin	6849.16	261.93	95.88	6840.94	262.03	95.72									
75%	Vmin	8783.30	261.85	95.93	8782.72	261.85	95.93									
100%	Vmin	11897.80	261.80	95.76	11896.60	261.80	95.75									
10%	Vnom	1232.86	657.03	93.86	1233.79	657.03	93.95									
20%	Vnom	2721.48	656.93	96.11	2722.33	656.93	96.14									
30%	Vnom	4042.79	656.87	96.59	4041.27	656.87	96.53									
50%	Vnom	6850.93	656.82	96.99	6851.99	656.83	96.99									
75%	Vnom	8783.82	656.76	97.16	8783.55	656.71	97.15									
100%	Vnom	11891.97	656.85	97.09	11892.17	656.84	97.10									
10%	Vmax	1246.65	796.27	95.52	1245.64	796.27	95.41									
20%	Vmax	2724.49	796.34	97.25	2723.92	796.34	97.14									
30%	Vmax	4033.90	796.38	97.28	4033.99	796.38	97.28									
50%	Vmax	6864.97	796.45	97.56	6864.45	796.45	97.55									
75%	Vmax	8773.57	796.50	97.66	8775.07	796.49	97.61									
100%	Vmax	11898.43	796.57	97.65	11898.50	796.57	97.64									