Manufacturer: Solectria Renewables, LLC

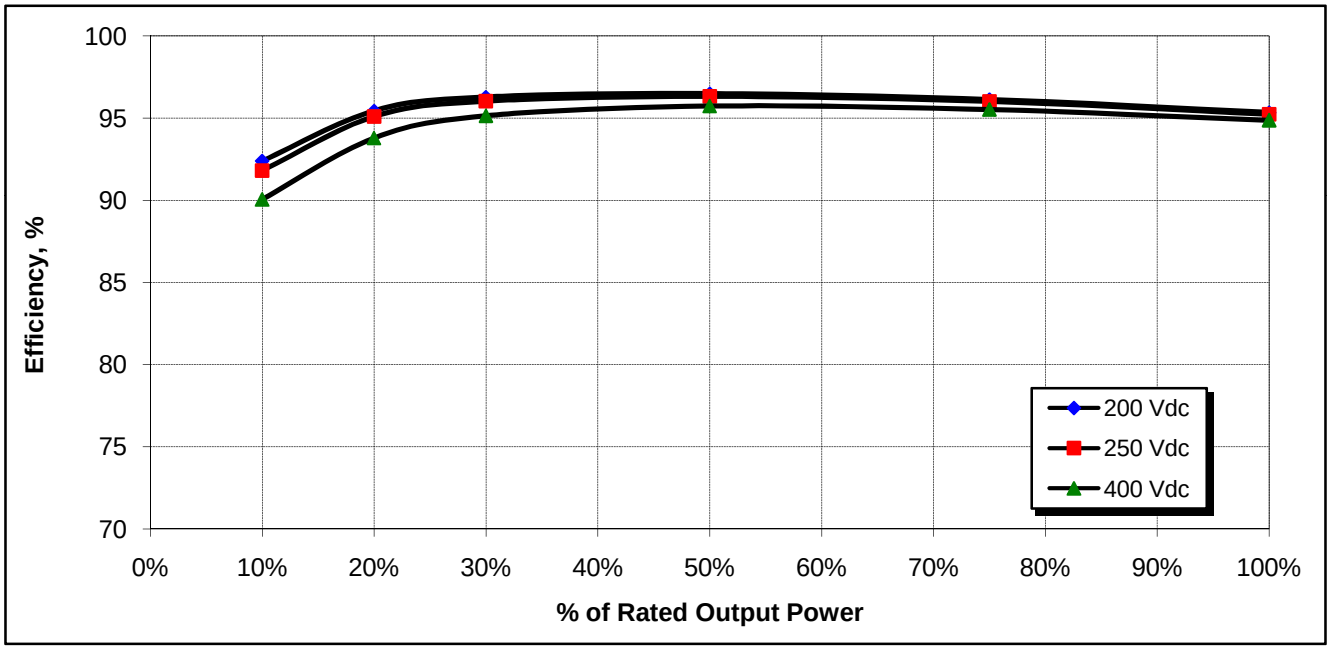
Model #: PVI 4000 and PVI 4000-P

Rated Maximum Continuous Output Power: 3.40 kW Night Tare Loss: 0.50 W

Vmin: 200 Vdc Vnom: 250 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.34	0.68	1.02	1.70	2.55	3.40	Wtd
Vmin	200	92.4	95.4	96.3	96.5	96.1	95.3	96.0
Vnom	250	91.8	95.1	96.0	96.3	96.0	95.2	95.8
Vmax	400	90.1	93.8	95.1	95.7	95.5	94.9	95.2

CEC Efficiency = 95.5%



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	340.90	200.15	92.366	340.89	200.16	92.385	340.92	200.16	92.390	340.93	200.16	92.394	340.91	200.17	92.384
20%	Vmin	680.62	200.20	95.439	680.57	200.20	95.430	680.58	200.20	95.432	680.57	200.20	95.433	680.58	200.20	95.433
30%	Vmin	1023.58	200.84	96.276	1023.26	200.79	96.276	1023.41	200.79	96.281	1023.37	200.79	96.275	1023.36	200.79	96.277
50%	Vmin	1695.83	199.93	96.482	1695.72	199.92	96.480	1695.86	199.92	96.486	1695.78	199.92	96.487	1695.72	199.92	96.489
75%	Vmin	2549.91	201.00	96.126	2549.87	201.00	96.127	2549.97	200.00	96.127	2549.68	201.00	96.127	2549.79	201.00	96.126
100%	Vmin	3400.02	200.62	95.334	3399.98	200.63	95.335	3400.03	200.63	95.337	3399.95	200.62	95.336	3400.01	200.62	95.337
10%	Vnom	340.98	250.34	91.801	340.91	250.35	91.798	340.93	250.36	91.808	340.98	250.36	91.820	340.91	250.36	91.805
20%	Vnom	679.31	250.38	95.100	679.36	250.39	95.101	679.21	250.38	95.096	679.30	250.38	95.093	679.19	250.38	95.088
30%	Vnom	1019.02	249.63	96.022	1019.11	249.93	96.027	1019.08	249.94	96.028	1019.04	249.93	96.029	1019.02	249.93	96.027
50%	Vnom	1707.08	249.96	96.320	1707.00	249.96	96.321	1706.99	249.96	96.318	1707.07	249.96	96.321	1706.93	249.96	96.319
75%	Vnom	2547.33	250.03	96.016	2547.47	250.03	96.017	2547.44	250.03	96.017	2547.37	250.03	96.018	2547.39	250.03	96.016
100%	Vnom	3401.34	250.72	95.234	3401.48	250.72	95.235	3401.59	250.72	95.237	3401.48	250.72	95.237	3401.44	250.70	95.238
10%	Vmax	339.25	399.33	90.071	339.13	399.34	90.059	339.26	399.35	90.060	339.28	399.35	90.067	339.31	399.35	90.062
20%	Vmax	679.14	399.35	93.795	678.96	399.36	93.786	679.01	399.36	93.785	679.06	399.36	93.788	678.94	399.36	93.783
30%	Vmax	1021.09	399.31	95.132	1021.08	399.31	95.138	1021.08	399.31	95.137	1021.07	399.32	95.140	1021.23	399.33	95.145
50%	Vmax	1699.62	399.30	95.731	1699.63	399.31	95.734	1699.70	399.30	95.735	1699.66	399.31	95.736	1699.63	399.32	95.729
75%	Vmax	2548.14	399.29	95.521	2548.07	399.29	95.519	2547.99	399.28	95.517	2547.81	399.28	95.516	2547.89	399.28	95.516
100%	Vmax	3400.61	399.16	94.858	3400.91	399.17	94.867	3400.91	399.17	94.870	3401.17	399.17	94.872	3401.42	399.18	94.877

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															