Manufacturer: Solectria Renewables, LLC

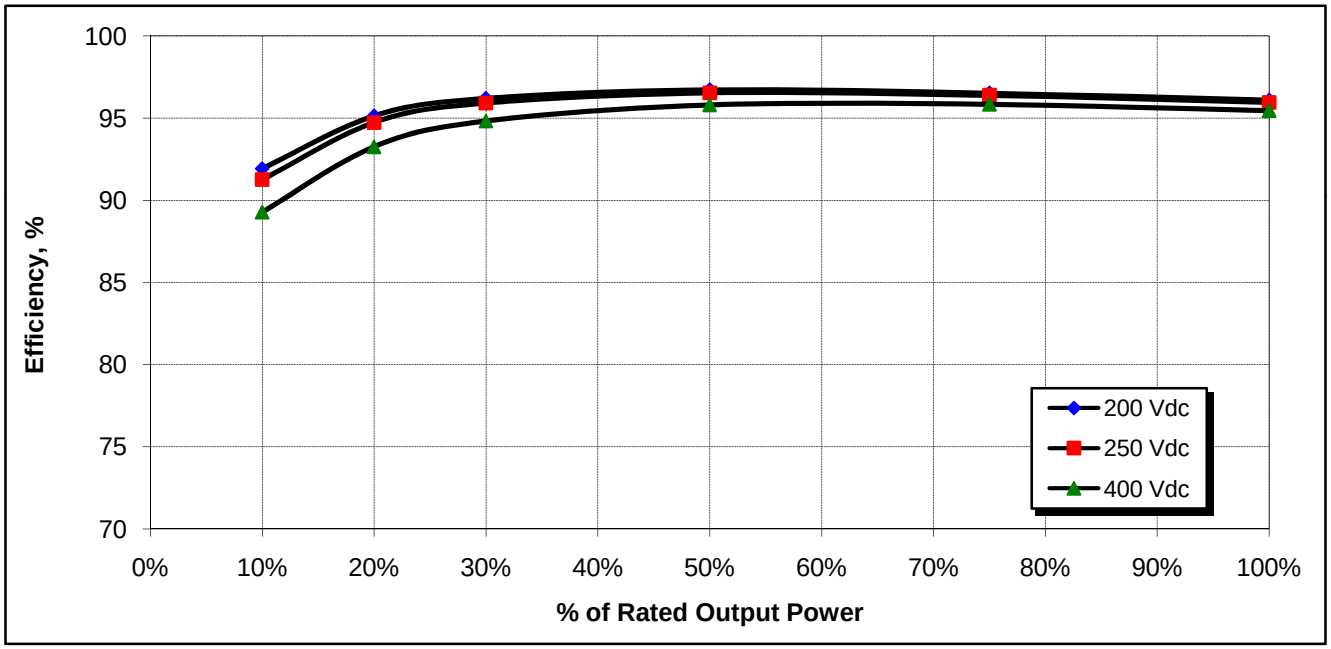
Model #: PVI 3000 and PVI 3000-P

Rated Maximum Continuous Output Power: 2.90 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)		0.29	0.58	0.87	1.45	2.18	2.90	Wtd
Vmin	200	91.9	95.1	96.2	96.7	96.5	96.1	96.3
Vnom	250	91.3	94.7	95.9	96.5	96.4	96.0	96.1
Vmax	400	89.3	93.3	94.8	95.8	95.8	95.4	95.3

CEC Efficiency = 96.0%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	290.06	199.96	91.917	290.13	199.96	91.934	290.12	199.95	91.918	290.16	199.96	91.935	290.05	199.96	91.904
20%	Vmin	581.22	199.98	95.114	581.31	199.99	95.139	581.27	199.99	95.144	581.09	199.96	95.136	581.06	199.94	95.139
30%	Vmin	870.57	200.00	96.189	870.66	199.98	96.201	870.55	199.97	96.202	870.59	199.97	96.210	870.56	199.97	96.205
50%	Vmin	1450.60	200.13	96.721	1450.51	200.13	96.719	1450.59	200.13	96.725	1450.56	200.13	96.725	1450.47	200.12	96.724
75%	Vmin	2174.58	200.09	96.516	2174.64	200.10	96.522	2174.57	200.10	96.520	2174.63	200.11	96.522	2174.55	200.10	96.525
100%	Vmin	2900.59	199.94	96.096	2900.68	199.94	96.099	2900.64	199.94	96.099	2900.60	199.94	96.097	2900.69	199.94	96.096
10%	Vnom	291.32	250.13	91.217	291.49	250.12	91.270	291.47	250.12	91.277	291.42	250.12	91.283	291.38	250.11	91.292
20%	Vnom	579.95	250.16	94.723	579.95	250.15	94.731	579.98	250.15	94.734	580.08	250.16	94.730	580.06	250.16	94.736
30%	Vnom	870.26	250.12	95.913	870.32	250.12	95.918	870.46	250.12	95.921	870.36	250.12	95.915	870.24	250.12	95.912
50%	Vnom	1447.98	250.16	96.527	1448.02	250.16	96.532	1447.99	250.16	96.532	1448.05	250.15	96.535	1448.03	250.15	96.536
75%	Vnom	2173.14	250.17	96.382	2174.04	250.18	96.385	2173.72	250.14	96.388	2173.68	250.13	96.390	2173.84	250.14	96.390
100%	Vnom	2901.23	250.02	95.957	2901.24	250.02	95.958	2901.30	250.02	95.960	2901.20	250.02	95.955	2901.30	250.02	95.958
10%	Vmax	280.10	399.34	89.246	280.30	399.33	89.284	280.24	399.32	89.298	280.27	399.32	89.286	280.17	399.31	89.272
20%	Vmax	582.60	399.29	93.251	582.53	399.28	93.252	582.43	399.29	93.244	582.58	399.28	93.258	582.44	399.29	93.247
30%	Vmax	872.70	399.28	94.812	872.69	399.27	94.818	872.68	399.28	94.815	872.74	399.29	94.811	872.77	399.30	94.813
50%	Vmax	1450.78	399.39	95.800	1450.81	399.38	95.798	1450.62	399.37	95.793	1450.68	399.37	95.791	1450.64	399.37	95.794
75%	Vmax	2176.11	400.27	95.816	2176.01	400.27	95.814	2176.00	400.27	95.815	2175.89	400.27	95.879	2175.92	400.27	95.818
100%	Vmax	2901.35	399.10	95.448	2901.19	399.10	95.445	2901.22	399.09	95.444	2901.20	399.10	95.441	2901.11	399.10	95.440

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
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															