Manufacturer: SOLECTRIA RENEWABLES LLC

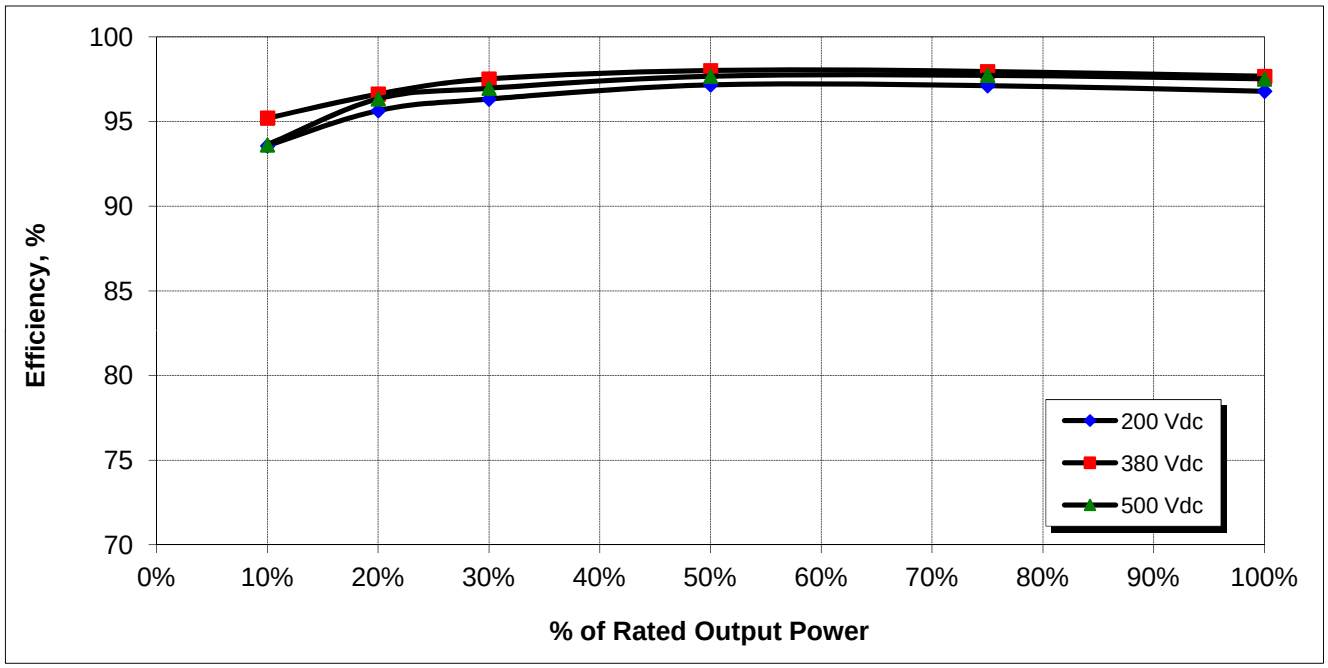
Model #: PVI-5200TL (208V)

Rated Maximum Continuous Output Power: 5.20 kW Night Tare Loss: 1.31 W

Vmin: 200 Vdc Vnom: 380 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.52	1.04	1.56	2.60	3.90	5.20	Wtd
Vmin	200	93.6	95.6	96.3	97.2	97.1	96.8	96.8
Vnom	380	95.2	96.6	97.5	98.0	98.0	97.7	97.7
Vmax	500	93.6	96.3	97.0	97.7	97.7	97.5	97.4

CEC Efficiency = 97.5%



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	485.07	200.1	93.584	485.7	200.1	93.561	485.8	200.1	93.561	485.9	200.1	93.550	485.6	200.1	93.570
20%	Vmin	1090.2	201.03	95.636	1090	201.03	95.644	1089	201.03	95.632	1088	201.03	95.635	1088	201.02	95.647
30%	Vmin	1579.5	200.95	96.326	1580	200.96	96.348	1580	200.96	96.339	1580	200.96	96.333	1579	200.95	96.316
50%	Vmin	2678	200.69	97.177	2677	200.68	97.169	2678	200.68	97.159	2677	200.68	97.164	2677	200.69	97.165
75%	Vmin	3990.1	200.49	97.125	3989	200.49	97.127	3989	200.49	97.124	3990	200.49	97.124	3990	200.49	97.119
100%	Vmin	5246	200.36	96.798	5246	200.35	96.793	5246	200.36	96.796	5247	200.37	96.790	5246	200.36	96.789
10%	Vnom	504.05	380.12	95.189	503.9	380.12	95.182	506	380.12	95.213	508.4	380.12	95.188	509.2	380.12	95.235
20%	Vnom	1078.8	379.88	96.632	1077	379.87	96.615	1072	379.87	96.607	1070	379.87	96.617	1070	379.88	96.609
30%	Vnom	1659.3	379.92	97.512	1662	379.93	97.514	1660	379.93	97.505	1654	379.92	97.500	1647	379.92	97.510
50%	Vnom	2681.8	380.01	98.005	2674	380.01	98.017	2669	380.02	98.014	2673	380.02	98.010	2686	380.02	98.009
75%	Vnom	3940.7	380.02	97.953	3936	380.01	97.956	3916	380.01	97.961	3905	380.01	97.956	3909	380.01	97.964
100%	Vnom	5283.8	379.94	97.672	5282	379.94	97.668	5269	379.94	97.673	5244	379.95	97.676	5238	379.95	97.674
10%	Vmax	504.8	499.66	93.671	505.5	499.66	93.673	505	499.65	93.641	502.9	499.65	93.602	500.9	499.66	93.590
20%	Vmax	1061.5	499.48	96.357	1057	499.48	96.343	1055	499.48	96.332	1054	499.47	96.325	1056	499.48	96.333
30%	Vmax	1594.7	499.36	96.970	1593	499.37	96.978	1595	499.37	96.986	1603	499.37	96.965	1607	499.38	96.937
50%	Vmax	2645.3	499.6	97.678	2644	499.61	97.685	2643	499.6	97.677	2640	499.6	97.680	2627	499.59	97.678
75%	Vmax	3966.3	499.54	97.734	3985	499.53	97.733	3990	499.54	97.729	3986	499.55	97.730	3976	499.56	97.725
100%	Vmax	5317.9	499.45	97.516	5324	499.45	97.512	5321	499.45	97.516	5307	499.45	97.516	5281	499.45	97.517

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	485.65	200.11	93.546	486.1	200.1	93.581									
20%	Vmin	1086.7	201.03	95.643	1087	201.02	95.653									
30%	Vmin	1579.8	200.96	96.320	1579	200.96	96.316									
50%	Vmin	2676.7	200.68	97.172	2678	200.68	97.176									
75%	Vmin	3989.2	200.49	97.128	3989	200.49	97.126									
100%	Vmin	5246.2	200.37	96.788	5246	200.36	96.788									
10%	Vnom	508.41	380.12	95.216	506.4	380.12	95.202									
20%	Vnom	1073.6	379.87	96.620	1078	379.87	96.634									
30%	Vnom	1645.1	379.92	97.523	1647	379.91	97.519									
50%	Vnom	2691.5	380.02	98.013	2692	380.02	98.007									
75%	Vnom	3918.4	380.01	97.959	3936	380.01	97.954									
100%	Vnom	5250.1	379.95	97.668	5261	379.94	97.672									
10%	Vmax	500.69	499.66	93.600	500.9	499.65	93.601									
20%	Vmax	1062.5	499.49	96.331	1062	499.47	96.344									
30%	Vmax	1607.5	499.37	96.957	1604	499.36	96.958									
50%	Vmax	2619.9	499.6	97.685	2622	499.6	97.685									
75%	Vmax	3959.3	499.56	97.733	3954	499.57	97.735									
100%	Vmax	5278.5	499.46	97.515	5289	499.45	97.518									