Manufacturer: Solectria Renewables, LLC

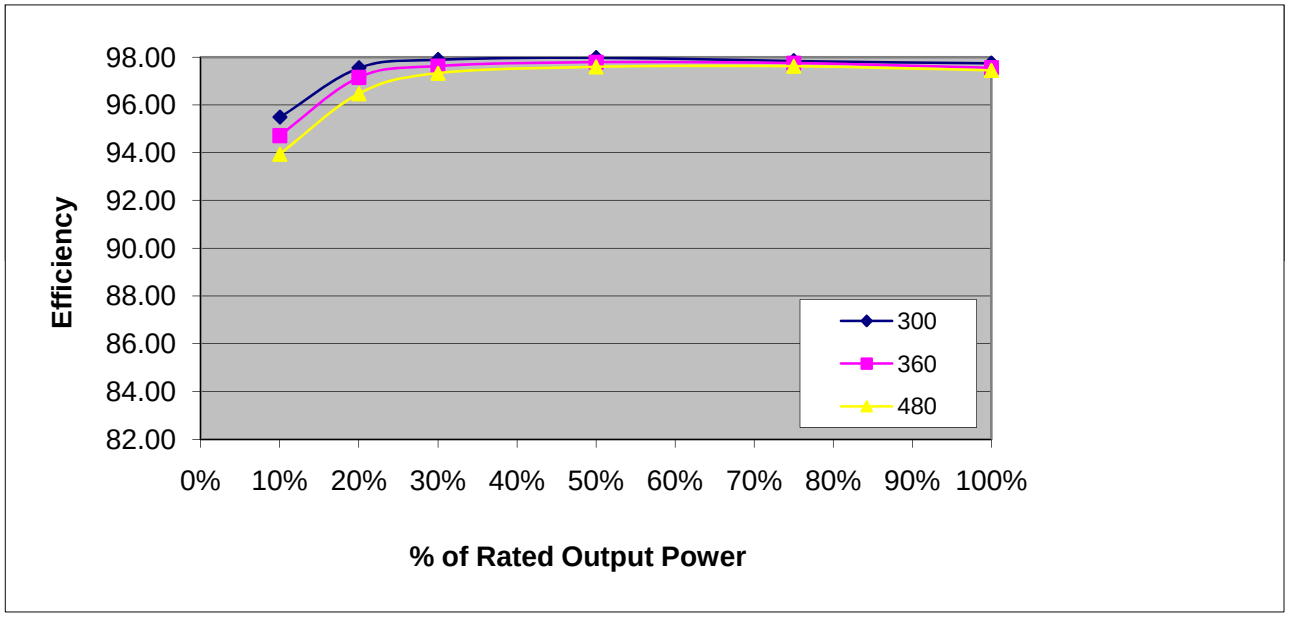
Model #: SGI 250

Rated Maximum Continuous Output Power: 258.172 kW Night Tare Loss: -28.00 W

Vmin: 300 Vdc Vnom: 360 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		22.7	54.5	78.3	134.0	178.3	238.9	Wtd
Vmin	300	95.48	97.54	97.89	97.98	97.84	97.75	97.76
Vnom	360	94.71	97.15	97.63	97.79	97.75	97.56	97.58
Vmax	480	93.93	96.47	97.32	97.59	97.62	97.44	97.36

CEC Efficiency = 97.5%



Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	23.736	302.240	95.460	23.718	302.254	95.415	23.728	302.315	95.491	23.735	302.345	95.516	23.741	302.357	95.529
20%	Vmin	53.935	301.314	97.545	53.952	301.315	97.538	53.940	301.314	97.557	53.915	301.374	97.519	53.913	301.488	97.564
30%	Vmin	81.026	300.853	97.885	80.958	301.156	97.878	80.938	301.272	97.893	80.965	301.345	97.904	81.004	301.367	97.914
50%	Vmin	135.739	301.718	97.961	135.804	301.733	97.996	135.835	301.772	98.002	135.809	301.830	97.973	135.821	301.668	97.960
75%	Vmin	178.428	301.142	97.847	178.353	301.587	97.838	178.245	301.850	97.841	178.445	301.974	97.850	178.320	302.012	97.837
100%	Vmin	238.069	302.241	97.748	238.192	302.313	97.760	238.222	302.350	97.746	237.923	302.304	97.743	238.212	302.316	97.735
10%	Vnom	22.689	360.488	94.792	22.636	360.552	94.627	22.637	360.779	94.694	22.647	360.859	94.707	22.654	360.883	94.729
20%	Vnom	54.492	360.277	97.161	54.498	360.305	97.162	54.518	360.316	97.170	54.521	360.307	97.141	54.546	360.171	97.099
30%	Vnom	78.347	361.041	97.630	78.323	361.037	97.641	78.243	361.194	97.612	78.239	361.297	97.622	78.214	361.315	97.631
50%	Vnom	134.053	360.531	97.797	134.018	360.551	97.796	133.936	360.540	97.779	133.967	360.548	97.778	133.902	360.517	97.780
75%	Vnom	178.141	360.703	97.753	178.184	360.660	97.755	178.185	360.647	97.750	178.387	360.665	97.742	178.388	360.622	97.737
100%	Vnom	239.050	359.999	97.560	239.066	359.907	97.559	238.828	360.125	97.546	238.695	360.356	97.557	238.739	360.418	97.557
10%	Vmax	24.017	481.925	93.919	24.032	482.023	93.957	24.056	482.052	93.925	24.052	482.037	93.918	24.069	481.730	93.936
20%	Vmax	53.350	481.484	96.467	53.320	481.389	96.462	53.422	480.674	96.457	53.444	480.367	96.476	53.466	480.297	96.475
30%	Vmax	80.008	480.563	97.317	80.021	480.473	97.317	80.027	480.410	97.343	80.046	480.244	97.311	80.144	479.998	97.336
50%	Vmax	134.551	479.569	97.600	134.716	479.548	97.587	134.582	479.491	97.595	134.378	479.538	97.587	134.352	479.821	97.585
75%	Vmax	176.829	479.593	97.607	176.734	479.374	97.622	176.879	479.307	97.618	176.831	479.286	97.627	176.768	479.301	97.630
100%	Vmax	241.114	478.970	97.447	241.201	478.941	97.449	241.295	478.948	97.426	241.236	479.430	97.446	241.204	479.704	97.443

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