Manufacturer: Solectria Renewables, LLC

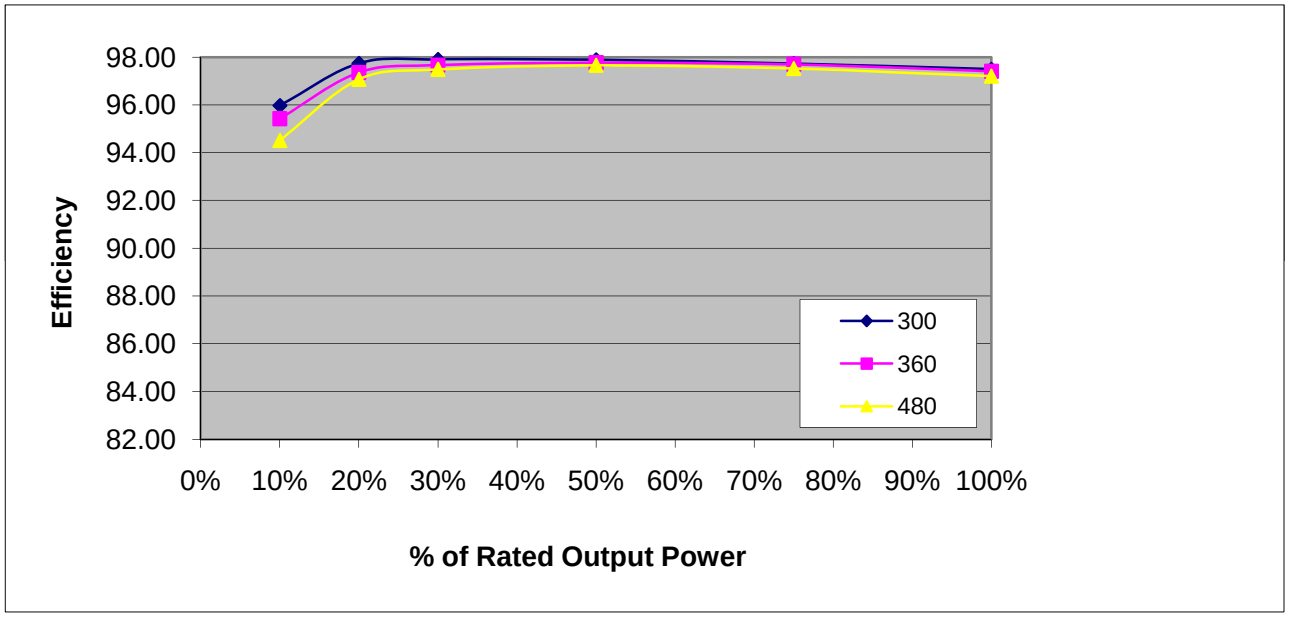
Model #: SGI 300

Rated Maximum Continuous Output Power: 304.850 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)		27.0	62.2	94.6	159.0	211.9	290.0	Wtd
Vmin	300	95.97	97.73	97.90	97.88	97.72	97.49	97.70
Vnom	360	95.43	97.36	97.67	97.76	97.70	97.41	97.58
Vmax	480	94.51	97.07	97.49	97.66	97.52	97.20	97.39

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	27.773	302.132	95.934	27.788	302.102	95.970	27.779	302.119	95.974	27.772	302.141	95.969	27.769	302.151	95.986
20%	Vmin	64.415	301.013	97.718	64.454	301.030	97.738	64.468	301.027	97.728	64.412	301.268	97.739	64.397	301.383	97.747
30%	Vmin	95.599	301.003	97.911	95.499	300.949	97.905	95.508	300.944	97.910	95.551	300.937	97.882	95.508	301.348	97.906
50%	Vmin	162.373	302.032	97.900	162.328	301.646	97.875	162.351	301.365	97.870	162.254	301.239	97.891	162.211	301.189	97.888
75%	Vmin	212.526	301.997	97.736	212.250	301.996	97.734	212.155	302.039	97.727	211.892	301.730	97.708	211.747	301.462	97.712
100%	Vmin	287.985	302.203	97.460	288.214	301.969	97.492	288.059	301.829	97.492	288.019	301.794	97.498	288.178	301.803	97.507
10%	Vnom	27.054	360.366	95.461	27.047	360.382	95.459	27.039	360.391	95.451	26.974	360.623	95.356	26.988	360.804	95.402
20%	Vnom	62.168	360.094	97.362	62.201	360.077	97.372	62.170	360.057	97.306	62.246	359.849	97.356	62.257	359.765	97.386
30%	Vnom	94.556	360.788	97.654	94.591	360.824	97.667	94.559	360.842	97.664	94.635	360.836	97.674	94.643	360.844	97.679
50%	Vnom	159.061	360.437	97.770	158.987	360.383	97.762	158.918	360.365	97.766	158.964	360.413	97.760	159.047	360.491	97.764
75%	Vnom	211.846	360.308	97.687	211.777	360.431	97.692	211.864	360.505	97.696	211.904	360.572	97.709	211.924	360.613	97.697
100%	Vnom	290.068	359.875	97.430	290.046	359.723	97.412	290.040	359.646	97.409	289.924	359.922	97.388	290.138	360.120	97.395
10%	Vmax	27.615	482.400	94.523	27.626	482.417	94.522	27.617	482.465	94.521	27.656	481.875	94.483	27.696	481.499	94.518
20%	Vmax	64.916	480.550	97.068	64.943	480.541	97.080	64.957	480.496	97.082	64.972	480.456	97.065	65.030	479.961	97.051
30%	Vmax	96.009	479.480	97.459	96.016	479.369	97.494	96.034	479.399	97.497	95.996	479.422	97.490	95.997	479.450	97.489
50%	Vmax	159.496	479.375	97.643	159.361	479.666	97.649	159.534	479.862	97.660	159.504	479.903	97.662	159.705	479.928	97.673
75%	Vmax	211.754	480.137	97.519	211.762	480.199	97.528	211.582	480.175	97.524	211.754	480.302	97.526	211.809	480.221	97.518
100%	Vmax	288.247	477.490	97.255	288.148	477.485	97.232	287.797	477.853	97.184	287.762	478.032	97.169	287.666	478.143	97.170

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															