Manufacturer: Solectria

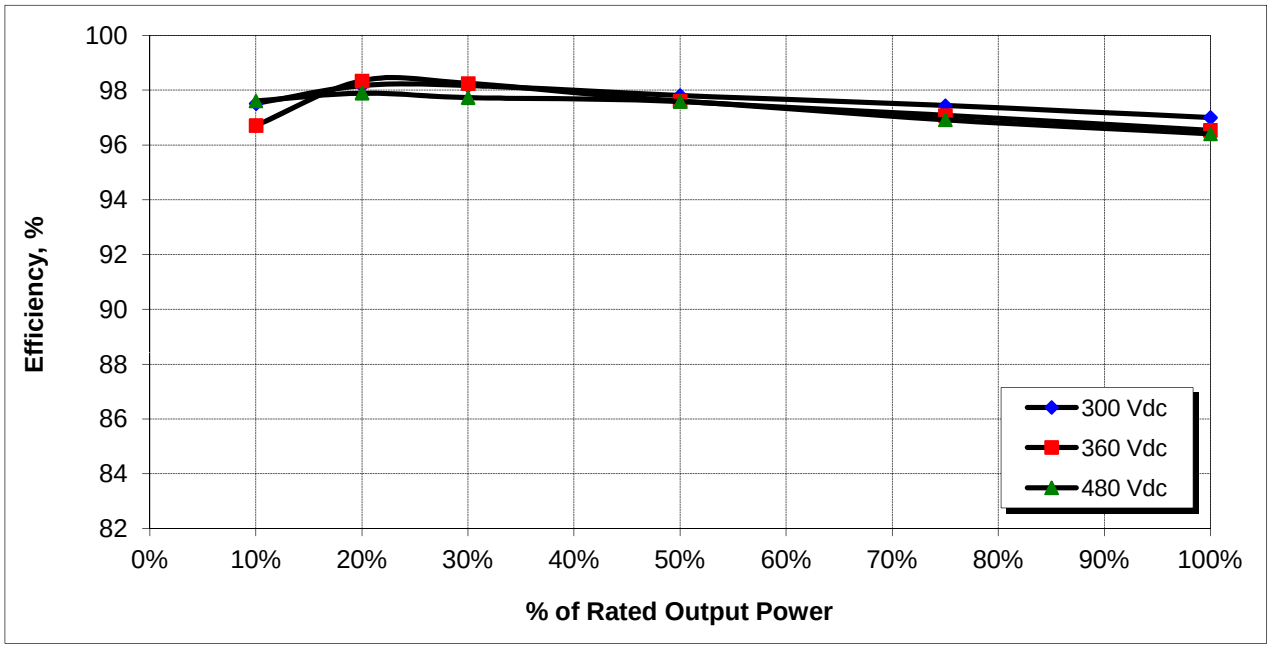
Model #: SGI 500PE

Rated Maximum Continuous Output Power: 508.16 kW Night Tare Loss: 17.00 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.82	101.63	152.45	254.08	381.12	508.16	Wtd
Vmin	300	97.5	98.2	98.2	97.8	97.4	97.0	97.6
Vnom	360	96.7	98.3	98.2	97.6	97.1	96.5	97.3
Vmax	480	97.6	97.9	97.7	97.6	96.9	96.4	97.2

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	45908	298.53	97.511	45745	298.55	97.465	46030	298.45	97.575	45868	298.49	97.515	45794	298.38	97.503
20%	Vmin	108867	298.63	98.126	108606	298.61	98.170	108046	298.57	98.194	107546	298.65	98.175	107404	298.67	98.145
30%	Vmin	160252	298.65	98.221	160153	298.61	98.141	160409	298.68	98.150	160479	298.73	98.157	160097	298.64	98.169
50%	Vmin	237352	298.8	97.809	237454	298.7	97.808	237725	298.8	97.816	237854	298.81	97.807	237733	298.8	97.800
75%	Vmin	358934	299.15	97.435	359349	299.16	97.433	359016	299.12	97.451	358878	299.12	97.446	358978	299.14	97.435
100%	Vmin	482698	300.07	96.997	483440	300.04	97.004	482877	299.99	96.999	482464	299.96	96.999	482911	299.96	96.996
10%	Vnom	43398	361.9	96.817	43348	361.73	96.735	43351	361.74	96.712	43377	361.68	96.658	43316	361.69	96.621
20%	Vnom	100530	361.72	98.289	100414	361.81	98.320	100436	361.79	98.399	100485	361.78	98.380	100512	361.8	98.319
30%	Vnom	156000	361.86	98.206	155998	361.86	98.254	156113	361.83	98.308	156066	361.8	98.241	156227	361.8	98.231
50%	Vnom	232843	362.04	97.604	232940	361.99	97.579	233060	361.97	97.609	232841	361.92	97.566	233292	361.93	97.628
75%	Vnom	355800	362.2	97.073	355968	362.12	97.100	355869	362.16	97.070	355309	362.18	97.092	355161	362.32	97.068
100%	Vnom	481493	362.96	96.536	481372	363.02	96.541	481533	362.95	96.521	481669	362.84	96.529	481550	362.85	96.540
10%	Vmax	44025	480.91	97.779	44002	480.87	97.524	44040	480.75	97.542	44048	480.8	97.704	44051	480.81	97.492
20%	Vmax	101825	480.43	97.834	101783	480.51	97.933	101894	480.57	97.955	101793	480.52	97.881	101805	480.47	97.872
30%	Vmax	160985	480.38	97.736	161194	480.31	97.708	161346	480.21	97.787	161341	480.25	97.691	161086	480.41	97.745
50%	Vmax	238168	480.32	97.603	238565	480.3	97.598	238629	480.31	97.554	238230	480.46	97.562	238474	480.44	97.623
75%	Vmax	357904	480.91	96.893	358417	480.81	96.961	358537	480.76	96.886	357817	480.86	96.922	357958	481.02	96.937
100%	Vmax	483131	481.6	96.424	483947	481.73	96.431	483298	481.7	96.419	483914	481.78	96.378	483950	481.45	96.397

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															