Manufacturer: Solectria Renewables, LLC

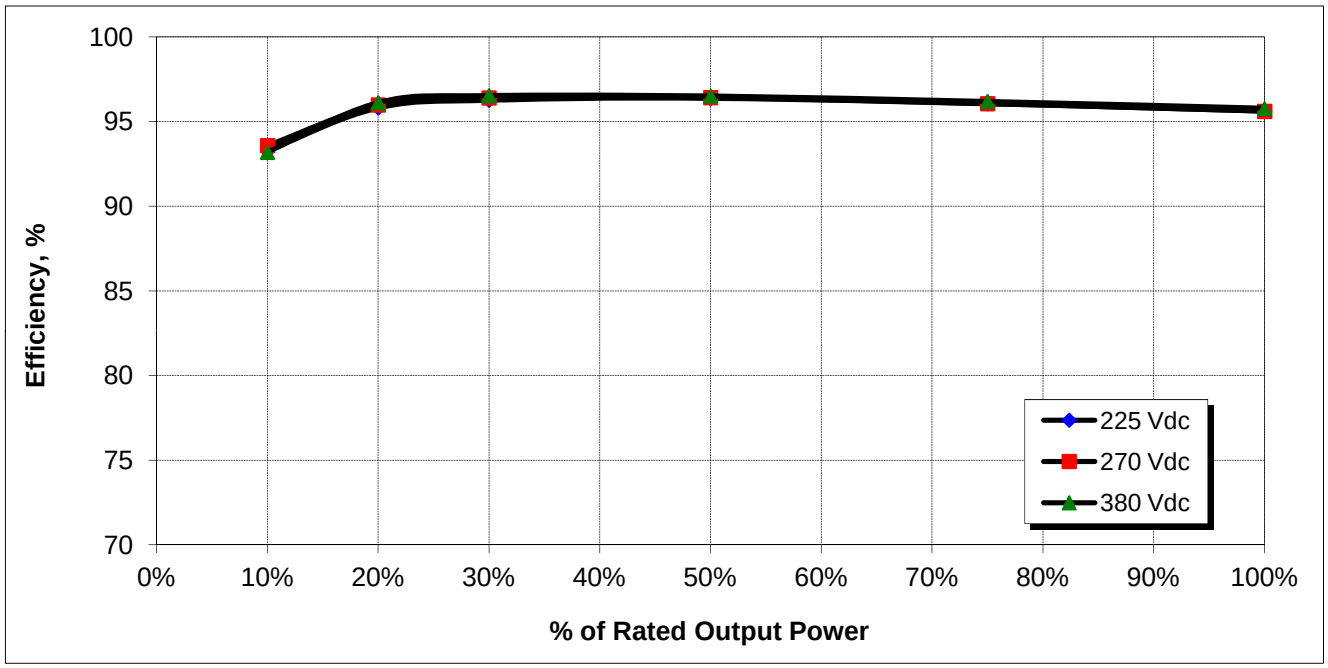
Model #: PVI13kW-480

Rated Maximum Continuous Output Power: 13.698 kW Night Tare Loss: -11.36 W

Vmin: 225 Vdc Vnom: 270 Vdc Vmax: 380 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.37	2.74	4.11	6.85	10.27	13.70	Wtd
Vmin	225	93.3	95.8	96.3	96.4	96.1	95.6	96.0
Vnom	270	93.6	96.0	96.4	96.4	96.1	95.6	96.0
Vmax	380	93.2	96.1	96.5	96.5	96.2	95.8	96.2

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	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	1.202	225.971	93.309	1.203	225.977	93.283	1.203	225.989	93.212	1.202	225.927	93.232	1.203	225.977	93.412
20%	Vmin	2.643	225.658	95.930	2.630	225.691	96.148	2.624	225.953	95.687	2.636	225.974	95.592	2.627	225.475	95.670
30%	Vmin	4.037	225.750	96.151	4.039	225.715	96.360	4.040	225.779	96.244	4.039	225.866	96.274	4.042	225.823	96.279
50%	Vmin	5.902	226.058	96.403	5.905	226.029	96.349	5.906	226.018	96.379	5.900	226.005	96.370	5.899	226.016	96.393
75%	Vmin	9.497	226.523	96.029	9.509	226.497	96.050	9.522	226.503	96.057	9.520	226.512	96.053	9.516	226.469	96.065
100%	Vmin	12.310	226.871	95.609	12.307	226.805	95.624	12.316	226.843	95.634	12.314	226.820	95.621	12.307	226.824	95.610
10%	Vnom	1.192	271.557	93.632	1.192	271.532	93.604	1.192	271.526	93.439	1.191	271.541	93.599	1.190	271.539	93.640
20%	Vnom	2.717	270.532	95.975	2.717	270.531	95.931	2.719	270.539	96.036	2.717	270.547	96.064	2.715	270.554	95.876
30%	Vnom	4.009	270.464	96.403	4.008	270.488	96.379	4.002	270.472	96.385	4.005	270.479	96.339	4.008	270.483	96.446
50%	Vnom	6.231	270.700	96.453	6.236	270.716	96.446	6.239	270.706	96.392	6.235	270.728	96.399	6.237	270.713	96.382
75%	Vnom	9.865	271.242	96.055	9.856	271.239	96.065	9.859	271.264	96.072	9.850	271.244	96.049	9.852	271.243	96.050
100%	Vnom	12.682	271.586	95.630	12.684	271.610	95.619	12.680	271.629	95.592	12.685	271.601	95.620	12.682	271.591	95.606
10%	Vmax	1.122	379.900	93.094	1.123	379.917	93.426	1.123	379.939	93.286	1.123	379.903	93.025	1.122	379.906	93.111
20%	Vmax	2.687	378.584	96.094	2.683	378.582	96.237	2.682	378.564	96.092	2.680	378.543	96.084	2.677	378.551	96.082
30%	Vmax	3.989	377.738	96.508	3.990	377.719	96.621	3.984	377.710	96.488	3.973	377.701	96.592	3.980	377.697	96.451
50%	Vmax	6.640	377.616	96.527	6.632	377.592	96.511	6.635	377.601	96.590	6.641	377.599	96.406	6.640	377.591	96.500
75%	Vmax	9.907	378.210	96.155	9.889	378.246	96.253	9.887	378.219	96.154	9.912	378.137	96.222	9.919	378.113	96.160
100%	Vmax	12.577	378.548	95.778	12.574	378.505	95.781	12.578	378.524	95.795	12.552	378.519	95.774	12.563	378.551	95.768

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															