Manufacturer: Sunset

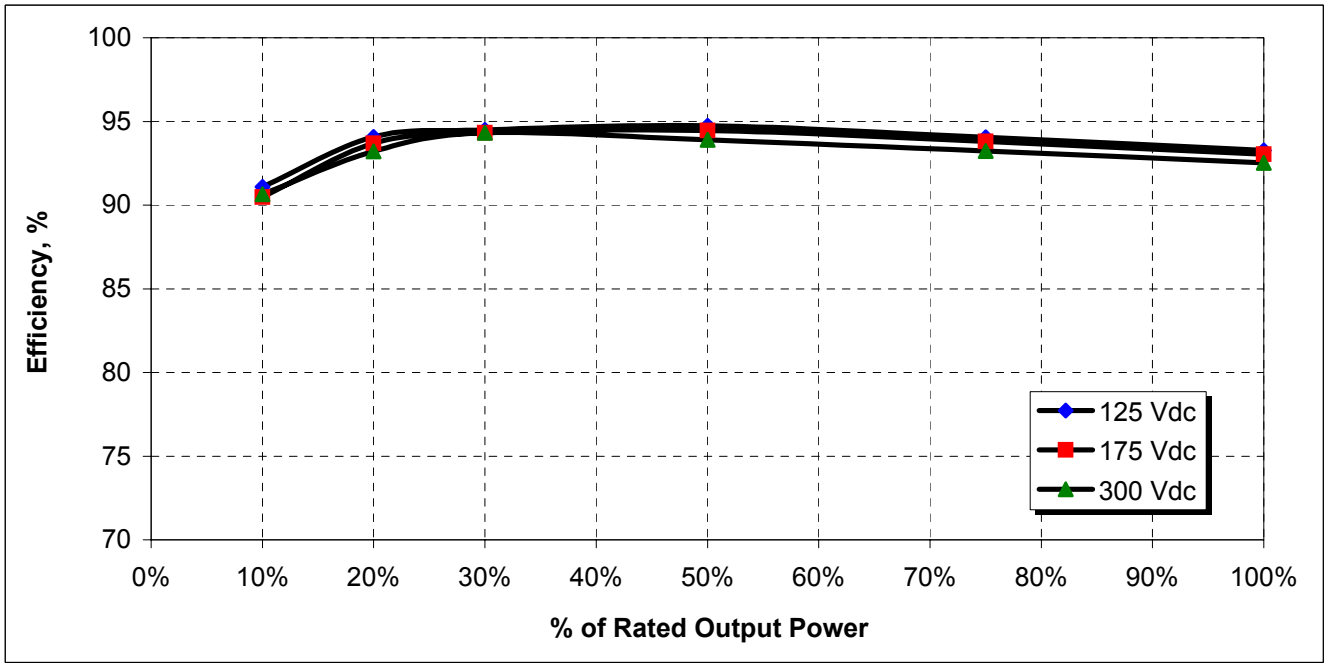
Model #: SUNstring 4000

Rated Maximum Continuous Output Power: 2.86 kW Night Tare Loss: 2.77 W

Vmin: 125 Vdc Vnom: 175 Vdc Vmax: 300 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.29	0.57	0.86	1.43	2.15	2.86	Wtd
Vmin	125	91.1	94.1	94.5	94.7	94.1	93.3	94.1
Vnom	175	90.5	93.7	94.3	94.5	93.8	93.0	93.8
Vmax	300	90.6	93.2	94.3	93.9	93.2	92.5	93.4

CEC Efficiency = 94.0%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	308.713	122.49	91.208	309.29	122.51	91.218	307	123.1	91.180	290.89	124.48	90.862	299.31	124.02	91.041
20%	Vmin	661.169	122.31	94.076	666.74	122.53	94.101	660.34	122.37	94.075	659.63	122.86	94.081	661.38	122.4	94.085
30%	Vmin	1004.61	124.52	94.497	994.83	126.06	94.471	987.51	125.14	94.490	999.87	124.31	94.497	1006.2	123.95	94.471
50%	Vmin	1421.61	122.8	94.742	1422.8	122.51	94.732	1414.3	123.71	94.744	1428.7	122.46	94.731	1438.5	122.58	94.736
75%	Vmin	2206.67	125.37	94.023	2203.3	125.86	94.060	2213.3	125.56	94.063	2213.3	125.15	94.043	2226.7	125.01	94.063
100%	Vmin	3011.89	121.48	93.268	3011.3	121.48	93.271	3011	121.48	93.269	3011	121.48	93.270	3010.8	121.49	93.267
10%	Vnom	293.489	176.21	90.590	287.81	177.7	90.472	288.84	178.55	90.515	291.13	178.74	90.551	296.15	176.69	90.630
20%	Vnom	653.318	176.44	93.654	668.06	175.02	93.716	674.35	175	93.734	644.16	176.66	93.629	657.93	175.91	93.680
30%	Vnom	1002.33	174.42	94.326	996.31	173.84	94.303	999.97	174.4	94.322	1003.4	175.54	94.308	988.89	175.08	94.327
50%	Vnom	1431.58	176.1	94.460	1426.9	175.34	94.460	1427.7	176.17	94.464	1430	175.64	94.469	1428.6	175.86	94.464
75%	Vnom	2556.67	177.41	93.560	2340	177.48	93.690	2370	177.43	93.670	2346.7	177.6	94.073	2193.3	177.61	94.163
100%	Vnom	3045.61	177.83	93.031	3060.1	177.99	93.023	3053.1	177.54	93.023	3062.2	178.52	93.017	3005.8	180.67	93.074
10%	Vmax	301.358	293.69	90.730	297.9	298.9	90.643	287.93	297.73	90.529	288.88	282.41	90.580	298.64	292.52	90.665
20%	Vmax	680.311	298.03	93.220	671.28	298.63	93.192	682.38	297.88	93.227	673.18	298.35	93.187	681.43	298.1	93.223
30%	Vmax	995.617	299.35	95.945	983.13	300.09	94.744	980.71	298.88	93.752	995.72	298.6	94.450	970.2	299.68	93.771
50%	Vmax	1440.33	298.5	93.902	1441.9	298.57	93.906	1434.2	298.38	93.904	1441.7	297.95	93.907	1440	298.61	93.907
75%	Vmax	2390	296.36	93.193	2390	296.32	93.200	2390	296.3	93.230	2400	296.34	93.267	2393.3	296.08	93.260
100%	Vmax	3037.75	299.02	92.519	3040	298.51	92.517	3040	298.5	92.516	3044	297.82	92.517	3024.2	298.81	92.530

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	303.699	121.96	91.126	294.43	124.11	90.955									
20%	Vmin	664.541	122.33	94.094	655.74	123.45	94.059									
30%	Vmin	999.326	124.89	94.487	1003.9	122.79	94.500									
50%	Vmin	1429.46	123.27	94.736	1422.1	123.49	94.743									
75%	Vmin	2223.33	124.98	94.083	2220	124.88	94.067									
100%	Vmin	3010.5	121.49	93.267												
10%	Vnom	273.37	179.99	90.250	281.56	174.12	90.375									
20%	Vnom	655.416	174.66	93.671	664.92	174.11	93.705									
30%	Vnom	993.196	172.59	94.382	995.12	172.76	94.290									
50%	Vnom	1428.17	175.78	94.459	1428.7	175.71	94.467									
75%	Vnom	2246.67	177.43	93.930	2393.3	177.21	93.563									
100%	Vnom	3040.3	177.01	93.044	3062.3	178.35	93.013									
10%	Vmax	300.367	293.95	90.688	301.93	295.89	90.704									
20%	Vmax	684.439	298	93.225	679.94	298.1	93.213									
30%	Vmax	996.173	299.28	93.772	993.66	299.02	93.753									
50%	Vmax	1437.56	298.3	93.904	1441.4	298.83	93.899									
75%	Vmax	2390	295.99	93.253	2393.3	296.17	93.253									
100%	Vmax	3046.08	298.02	92.513	3044.9	297.55	92.517									