Manufacturer: SMA Solar Technology AG

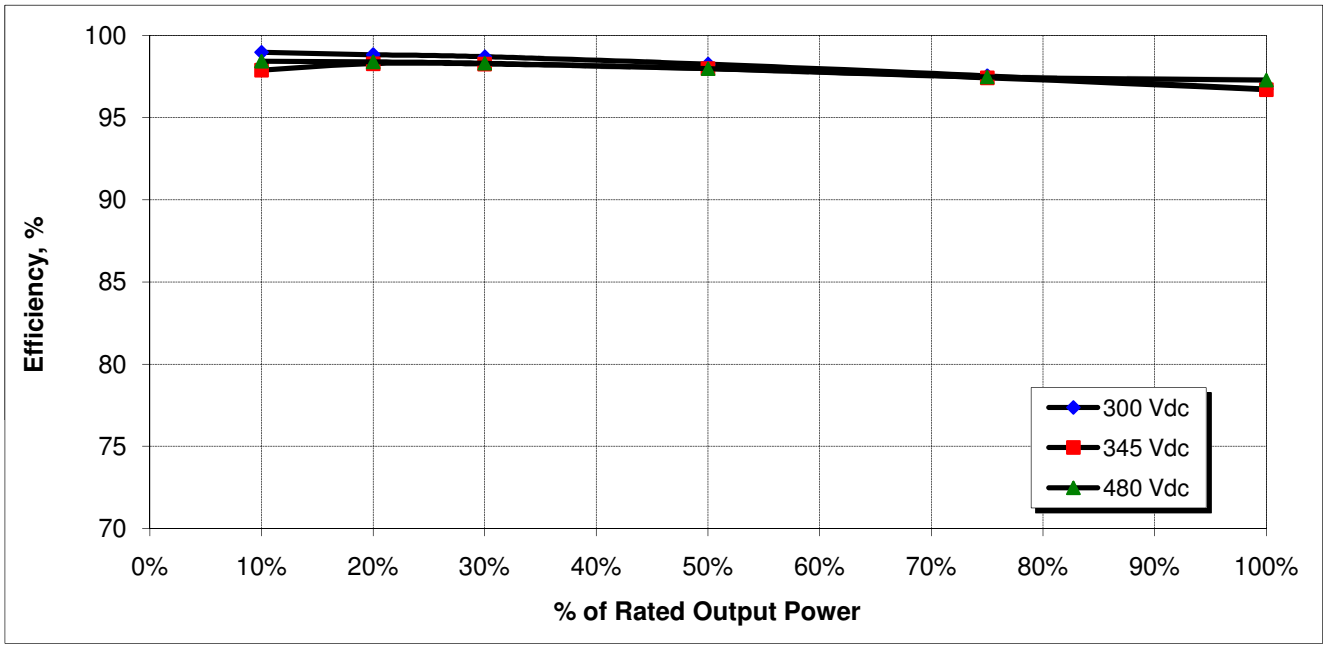
Model #: SB8000TL-US

Rated Maximum Continuous Output Power: 8108.58 kW Night Tare Loss: 0.49 W

Vmin: 300 Vdc Vnom: 345 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		810.86	1621.72	2432.57	4054.29	6081.44	8108.58	Wtd
Vmin	300	99.0	98.8	98.7	98.2	97.5	96.7	97.9
Vnom	345	97.9	98.3	98.3	98.0	97.4	96.7	97.7
Vmax	480	98.4	98.4	98.3	98.0	97.5	97.3	97.7

CEC Efficiency = 98.0%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency
(% of rated)	(Vdc)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)
10%	Vmin	308.54	915.5	98.940	308.54	915.44	98.970	308.5	915.55	99.020	308.54	915.4	99.010	308.54	915.42	98.980
20%	Vmin	309.37	1635.9	98.860	309.38	1636.1	98.850	309.4	1635.7	98.820	309.38	1636.1	98.830	309.37	1635.6	98.790
30%	Vmin	309.27	2236.3	98.690	309.27	2236.1	98.680	309.3	2236	98.710	309.27	2236	98.680	309.27	2236.1	98.690
50%	Vmin	311.93	3643.3	98.200	311.92	3643.6	98.230	311.9	3641.8	98.240	311.94	3642.9	98.240	311.94	3643.5	98.260
75%	Vmin	309.97	5642.2	97.510	309.97	5643.3	97.530	310	5643.1	97.540	309.97	5642.9	97.540	309.97	5645.1	97.540
100%	Vmin	310.86	7788	96.740	310.87	7788.1	96.750	310.9	7787.8	96.740	310.86	7787.4	96.740	310.87	7787.2	96.740
10%	Vnom	347.42	825.56	97.880	347.32	825.58	97.830	347.3	825.54	97.930	347.36	825.49	97.990	347.39	825.53	97.910
20%	Vnom	349.27	1627.6	98.340	349.26	1627.4	98.290	349.3	1627.4	98.280	349.26	1627.5	98.270	349.27	1627.9	98.280
30%	Vnom	349.2	2236.6	98.220	349.21	2235.7	98.220	349.2	2236.6	98.240	349.2	2236.6	98.260	349.19	2236.1	98.260
50%	Vnom	348.95	3645.1	97.970	348.95	3646.8	97.960	348.9	3644.9	97.950	348.95	3645.8	97.980	348.94	3645.2	97.980
75%	Vnom	348.53	5646	97.400	348.53	5644.2	97.410	348.5	5645.6	97.420	348.52	5646.2	97.420	348.52	5647.2	97.430
100%	Vnom	345.74	7637.6	96.700	345.73	7637.4	96.690	345.7	7635.7	96.690	345.74	7637.5	96.690	345.72	7637.4	96.700
10%	Vmax	478.33	927.17	98.320	478.32	927.16	98.470	478.3	927.11	98.470	478.33	926.83	98.500	478.32	915.81	98.420
20%	Vmax	478.19	1626	98.320	478.2	1625.3	98.340	478.2	1625.2	98.350	478.2	1624.6	98.370	478.2	1624.9	98.430
30%	Vmax	478.11	2231	98.300	478.11	2230.4	98.290	478.1	2230.6	98.350	478.09	2230.2	98.320	478.1	2231.1	98.310
50%	Vmax	477.91	3642.7	97.970	477.9	3643	97.960	477.9	3642.3	97.940	477.9	3641.6	97.950	477.9	3641.4	97.970
75%	Vmax	477.63	5648.5	97.440	477.63	5648.6	97.450	477.6	5649.9	97.470	477.62	5648.8	97.450	477.63	5650.9	97.450
100%	Vmax	474.94	7641.9	97.290	474.94	7644.3	97.280	474.9	7641.4	97.280	474.93	7641.7	97.270	474.94	7640.3	97.280

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency	Input Voltage	Output Power	Efficiency
(% of rated)	(Vdc)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)	(Vdc)	(W)	(%)
10%	Vmin	308.54	915.48	98.950	308.53	915.46	98.940	308.5	915.45	98.980	308.54	915.41	98.950	308.54	915.44	98.940
20%	Vmin	309.38	1635.4	98.800	309.37	1635.5	98.820	309.4	1636.1	98.820	309.37	1635.7	98.820	309.37	1636.2	98.810
30%	Vmin	309.27	2236.6	98.730	309.27	2236.3	98.720	309.3	2236.7	98.710	309.27	2236.4	98.680	309.28	2236.2	98.700
50%	Vmin	311.95	3644.1	98.260	311.95	3643.9	98.230	312	3643.6	98.260	311.95	3644.1	98.260	311.95	3643.7	98.260
75%	Vmin	309.97	5643.8	97.560	309.97	5643.3	97.550	310	5642.5	97.550	309.98	5642.8	97.550	309.97	5642.3	97.550
100%	Vmin	310.85	7797.2	96.750	310.84	7800.5	96.730	310.9	7800	96.730	310.85	7800.4	96.740	310.84	7800.6	96.740
10%	Vnom	347.33	825.54	97.860	347.43	825.56	97.890	347.4	825.52	97.720	347.45	825.47	97.910	347.45	825.51	97.870
20%	Vnom	349.27	1627.7	98.290	349.27	1627.6	98.280	349.3	1627.7	98.260	349.27	1627.6	98.260	349.27	1627.5	98.230
30%	Vnom	349.2	2236.6	98.270	349.18	2236.4	98.240	349.2	2236.9	98.250	349.19	2237.2	98.260	349.17	2237.1	98.290
50%	Vnom	348.94	3645.4	97.990	348.94	3646.5	97.980	348.9	3645.6	97.990	348.94	3646.3	97.990	348.94	3646.2	98.000
75%	Vnom	348.52	5648.2	97.430	348.53	5646.7	97.430	348.5	5647.9	97.420	348.54	5647.5	97.420	348.54	5647.2	97.420
100%	Vnom	345.73	7636	96.700	345.74	7640.2	96.700	345.7	7637.9	96.700	345.74	7637.8	96.700	345.73	7637.5	96.690
10%	Vmax	478.33	915.44	98.390	478.33	915.44	98.360	478.3	915.47	98.440	478.32	917.31	98.480	478.33	927.15	98.470
20%	Vmax	478.2	1625.7	98.420	478.21	1626	98.400	478.2	1626.2	98.400	478.21	1625.8	98.420	478.2	1625.9	98.450
30%	Vmax	478.1	2231	98.290	478.11	2232.3	98.310	478.1	2232.4	98.280	478.11	2231.8	98.300	478.11	2231.6	98.320
50%	Vmax	477.91	3641.3	97.970	477.9	3641.8	97.960	477.9	3642	97.990	477.91	3643.4	98.000	477.91	3643.1	98.010
75%	Vmax	477.63	5648.8	97.460	477.63	5650.1	97.470	477.6	5649.3	97.500	477.63	5649.3	97.480	477.63	5650.2	97.500
100%	Vmax	474.94	7641.7	97.260	474.94	7642	97.260	474.9	7642.8	97.270	474.94	7640.2	97.290	474.94	7641.8	97.270