Manufacturer: SMA America

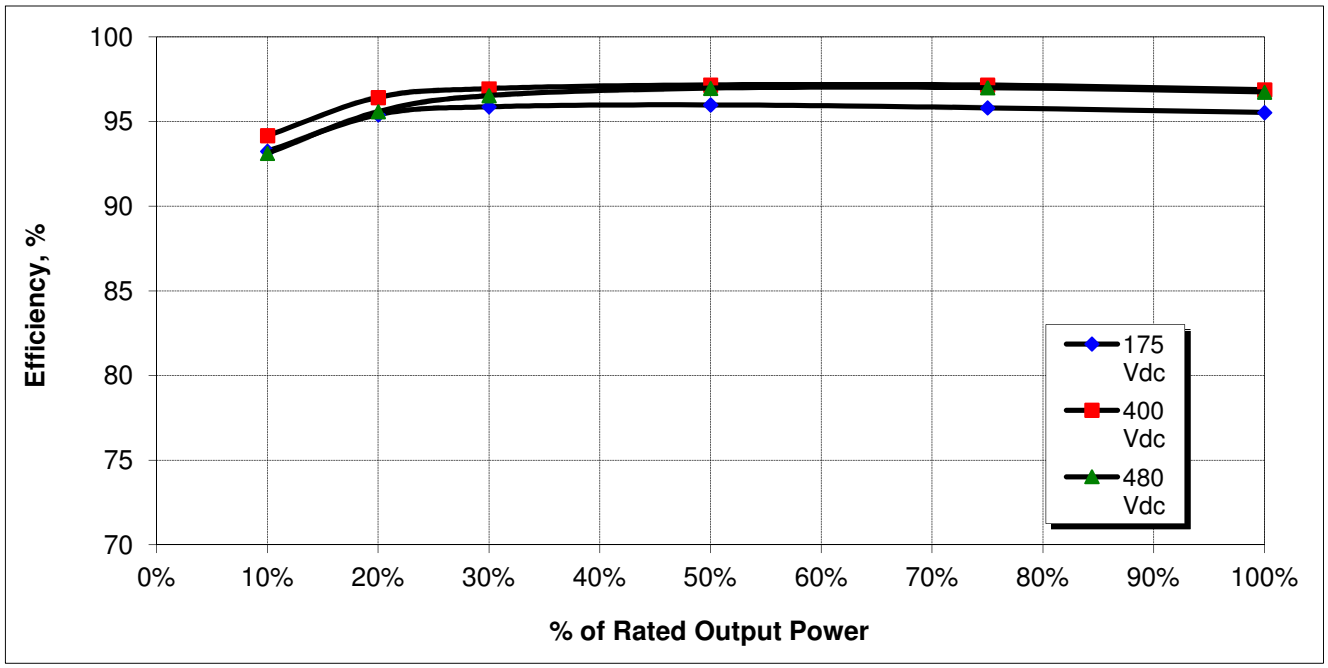
Model #: SB4000TL-US-22 (240V)

Rated Maximum Continuous Output Power: N/A kW Night Tare Loss: 0.99 W

Vmin: 175 Vdc Vnom: 400 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)								Wtd
Vmin	175	93.2	95.4	95.9	96.0	95.8	95.5	95.7
Vnom	400	94.2	96.4	96.9	97.2	97.1	96.9	97.0
Vmax	480	93.1	95.6	96.5	97.0	97.0	96.7	96.7

CEC Efficiency = 96.5%



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	362	173.25	93.299	361	173.25	93.041	362	173.25	93.299	362	173.26	93.299	362	173.26	93.299
20%	Vmin	814	173.24	95.540	812	173.23	95.305	813	173.21	95.423	814	173.21	95.428	813	173.25	95.311
30%	Vmin	1219	173.24	95.833	1220	173.24	95.837	1220	173.25	95.912	1220	173.24	95.837	1221	173.24	95.915
50%	Vmin	1990	173.28	95.950	1990	173.25	95.950	1992	173.28	96.046	1991	173.26	95.998	1990	173.27	95.950
75%	Vmin	2877	173.28	95.772	2878	173.27	95.806	2879	173.27	95.839	2878	173.28	95.806	2878	173.29	95.806
100%	Vmin	3933	173.25	95.552	3931	173.23	95.502	3931	173.22	95.525	3932	173.24	95.551	3933	173.24	95.525
10%	Vnom	381	399.22	94.541	380	399.22	94.527	379	399.25	94.514	375	398.36	93.750	374	398.35	93.500
20%	Vnom	842	399.39	96.453	843	399.41	96.449	842	399.39	96.334	841	399.39	96.437	839	399.39	96.437
30%	Vnom	1260	399.45	96.923	1260	399.43	96.998	1260	399.45	96.923	1260	399.46	96.923	1258	399.43	96.918
50%	Vnom	2043	399.48	97.101	2046	399.48	97.197	2048	399.48	97.154	2045	399.47	97.196	2044	399.49	97.148
75%	Vnom	2957	399.59	97.174	2957	399.62	97.142	2956	399.6	97.173	2955	399.57	97.108	2956	399.57	97.141
100%	Vnom	4138	397.88	96.689	4138	397.87	96.641	4152	399.67	97.038	4153	399.68	97.014	4152	399.7	97.013
10%	Vmax	381	479.37	93.612	381	479.39	93.154	381	479.42	93.382	373	478.43	92.099	380	478.42	93.366
20%	Vmax	840	479.5	95.890	840	479.49	96.000	829	478.38	95.287	832	478.4	95.413	832	478.38	95.304
30%	Vmax	1257	479.52	96.544	1255	479.5	96.538	1256	479.49	96.541	1255	479.5	96.464	1255	479.5	96.538
50%	Vmax	2045	479.63	96.965	2045	479.62	97.011	2044	479.61	96.964	2043	479.62	96.917	2045	479.6	96.965
75%	Vmax	2961	479.7	96.987	2962	479.71	96.988	2962	479.69	96.988	2962	479.73	96.988	2961	479.73	97.018
100%	Vmax	3998	477.94	96.500	3998	477.94	96.500	4028	479.85	96.897	4029	479.83	96.898	4028	479.84	96.897

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															