Manufacturer: SMA America

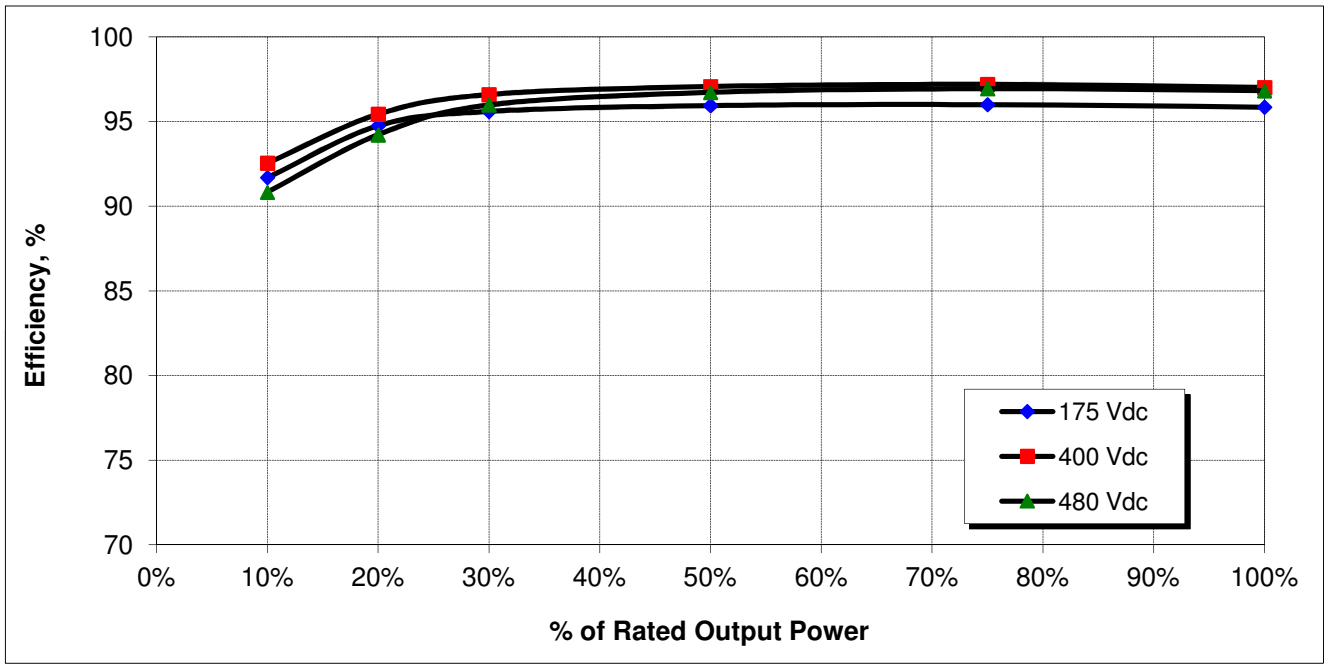
Model #: SB3000TL-US-22 (240V)

Rated Maximum Continuous Output Power: 3.00 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)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	175	91.7	94.7	95.6	95.9	96.0	95.9	95.7
Vnom	400	92.5	95.4	96.6	97.1	97.2	97.0	96.8
Vmax	480	90.8	94.2	96.0	96.7	96.9	96.8	96.4

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	269	172.19	91.809	269	172.22	91.497	270	172.14	91.837	269	172.18	91.497	269	172.16	91.809
20%	Vmin	611	172.15	94.876	611	172.19	94.876	608	172.17	94.557	610	172.18	94.720	609	172.2	94.712
30%	Vmin	915	172.18	95.511	917	172.18	95.720	916	172.2	95.616	916	172.19	95.616	915	172.2	95.511
50%	Vmin	1497	172.21	95.900	1498	172.23	95.964	1497	172.21	95.839	1499	172.23	96.028	1498	172.22	95.964
75%	Vmin	2167	172.22	95.970	2167	172.21	95.970	2168	172.2	96.014	2167	172.19	96.012	2168	172.2	96.014
100%	Vmin	2957	172.18	95.851	2956	172.16	95.818	2957	172.16	95.882	2956	172.15	95.850	2956	172.16	95.850
10%	Vnom	285	398.37	92.834	284	398.4	92.810	284	398.39	93.115	280	397.02	91.803	281	397.02	92.131
20%	Vnom	636	326	95.928	636	325	95.310	630	324	95.303	629	325	95.303	629	325	95.303
30%	Vnom	947	398.57	96.633	946	398.59	96.629	946	398.59	96.629	946	398.6	96.531	947	398.59	96.534
50%	Vnom	1545	398.65	97.109	1547	398.66	97.051	1545	398.67	97.048	1546	398.66	97.050	1546	398.68	97.050
75%	Vnom	2234	398.74	97.215	2235	398.74	97.174	2235	398.73	97.174	2234	398.71	97.215	2235	398.72	97.174
100%	Vnom	3124	397.5	96.767	3121	397.49	96.796	3133	398.85	97.159	3135	398.86	97.129	3135	398.83	97.193
10%	Vmax	279	477.03	90.291	277	477.03	90.228	280	477.03	90.323	285	478.47	91.640	285	478.49	91.640
20%	Vmax	632	478.6	95.038	633	478.61	95.331	608	477	91.704	627	477.05	94.570	626	477.02	94.419
30%	Vmax	946	478.61	96.138	945	478.65	96.134	938	477.07	95.519	944	478.67	96.033	946	478.65	96.041
50%	Vmax	1545	478.78	96.744	1545	478.75	96.683	1545	478.73	96.744	1545	478.74	96.683	1544	478.79	96.742
75%	Vmax	2233	478.8	96.918	2234	478.81	96.920	2234	478.77	96.962	2236	478.83	96.964	2234	478.82	96.920
100%	Vmax	3014	477.6	96.634	3016	477.59	96.574	3037	478.93	96.967	3038	478.93	96.968	3039	478.92	96.938

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															