Manufacturer: SMA Technologie AG

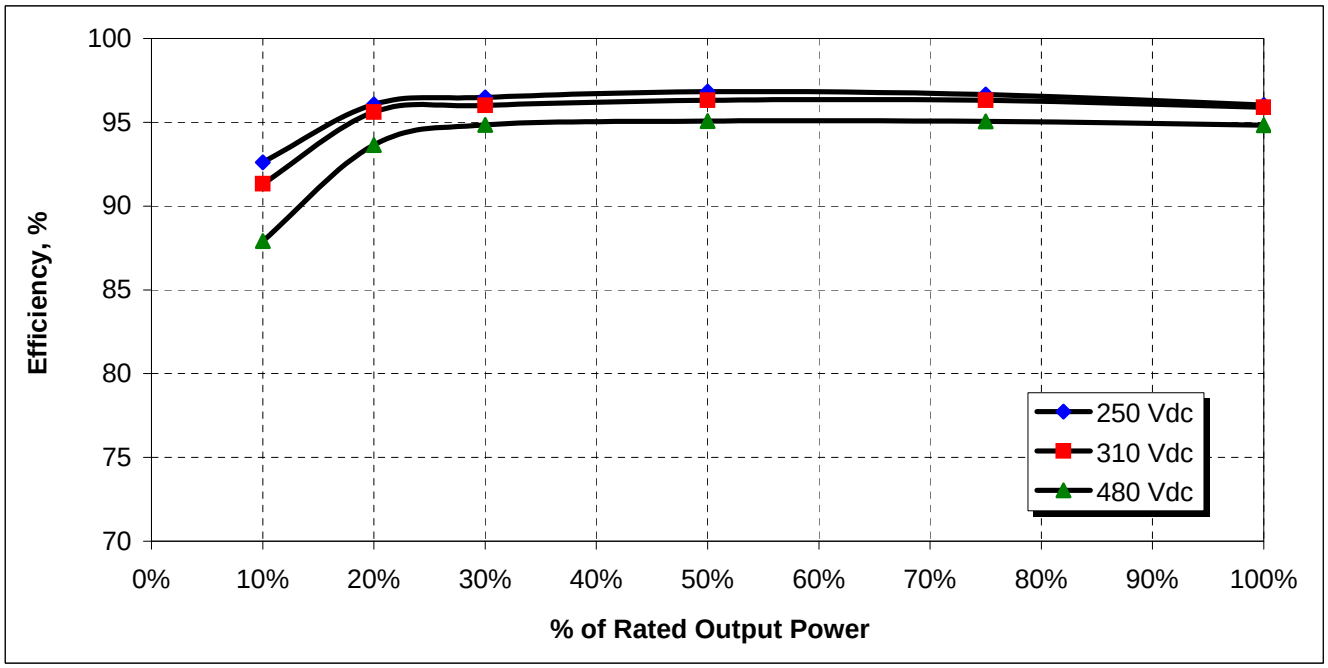
Model #: SB6000US, 240Vac

Rated Maximum Continuous Output Power: 6.00 kW Night Tare Loss: 0.72 W

Vmin: 250 Vdc Vnom: 310 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.60	1.20	1.80	3.00	4.50	6.00	Wtd
Vmin	250	92.6	96.1	96.5	96.8	96.7	96.0	96.4
Vnom	310	91.3	95.6	96.0	96.3	96.3	95.9	96.0
Vmax	480	87.9	93.6	94.8	95.1	95.0	94.8	94.7

CEC Efficiency = 95.5%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	594.5	250.1	92.646	594.6	250.1	92.630	594.5	250.2	92.616	593.6	250.1	92.599	594.8	250.1	92.534
20%	Vmin	1309.1	250.2	96.304	1308.8	250.2	96.094	1310.1	250.2	96.077	1308.3	250.2	95.945	1307.6	250.2	95.924
30%	Vmin	1925.6	250.2	96.562	1927.4	250.3	96.507	1925	250.3	96.477	1925.6	250.2	96.429	1923.8	250.3	96.417
50%	Vmin	2742	250.4	96.857	2743	250.4	96.856	2743	250.3	96.823	2743	250.4	96.823	2742	250.3	96.788
75%	Vmin	4217	250.4	96.700	4211	250.5	96.678	4218	250.4	96.677	4220	250.4	96.632	4215	250.5	96.586
100%	Vmin	5714	250.8	96.069	5718	250.8	96.051	5707	251	96.021	5729	250.8	95.985	5716	250.8	95.968
10%	Vnom	588.3	309.7	91.607	592.5	309.7	91.441	588.9	309.8	91.214	590.8	309.7	91.212	589.5	309.7	91.133
20%	Vnom	1300.7	309.8	95.682	1301.8	309.8	95.653	1300.9	309.8	95.629	1300.5	309.8	95.535	1303	309.8	95.527
30%	Vnom	1904.6	309.9	96.067	1903.3	309.8	96.061	1902.9	309.9	95.994	1906.6	309.9	95.972	1903.5	309.9	95.952
50%	Vnom	2828	309.9	96.519	2829	309.9	96.422	2830	310	96.289	2826	310	96.224	2827	310	96.091
75%	Vnom	4242	310	96.343	4242	310	96.323	4242	310	96.322	4243	310	96.301	4244	310.1	96.279
100%	Vnom	5758	310.1	95.906	5758	310.1	95.905	5763	310.1	95.905	5761	310.2	95.890	5763	310.1	95.823
10%	Vmax	582.2	478.7	87.976	583.9	478.7	87.967	584.1	478.7	87.937	584.8	478.7	87.905	583.3	478.7	87.820
20%	Vmax	1309.7	478.8	93.737	1310	478.7	93.658	1307.5	478.7	93.657	1307.4	478.7	93.593	1308.2	478.7	93.586
30%	Vmax	1924.7	478.8	94.892	1924	478.7	94.857	1924.1	478.8	94.847	1926.3	478.7	94.813	1925.6	478.7	94.783
50%	Vmax	3000	478.7	95.116	3001	478.7	95.089	3000	478.7	95.059	3001	478.7	95.057	2999	478.7	95.027
75%	Vmax	4219	478.9	95.089	4219	478.7	95.087	4219	478.7	95.024	4221	478.7	95.023	4220	478.7	95.001
100%	Vmax	5759	478.8	94.845	5761	478.8	94.816	5758	478.9	94.816	5758	478.8	94.813	5760	478.8	94.813

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															