Manufacturer: SMA Technologies AG

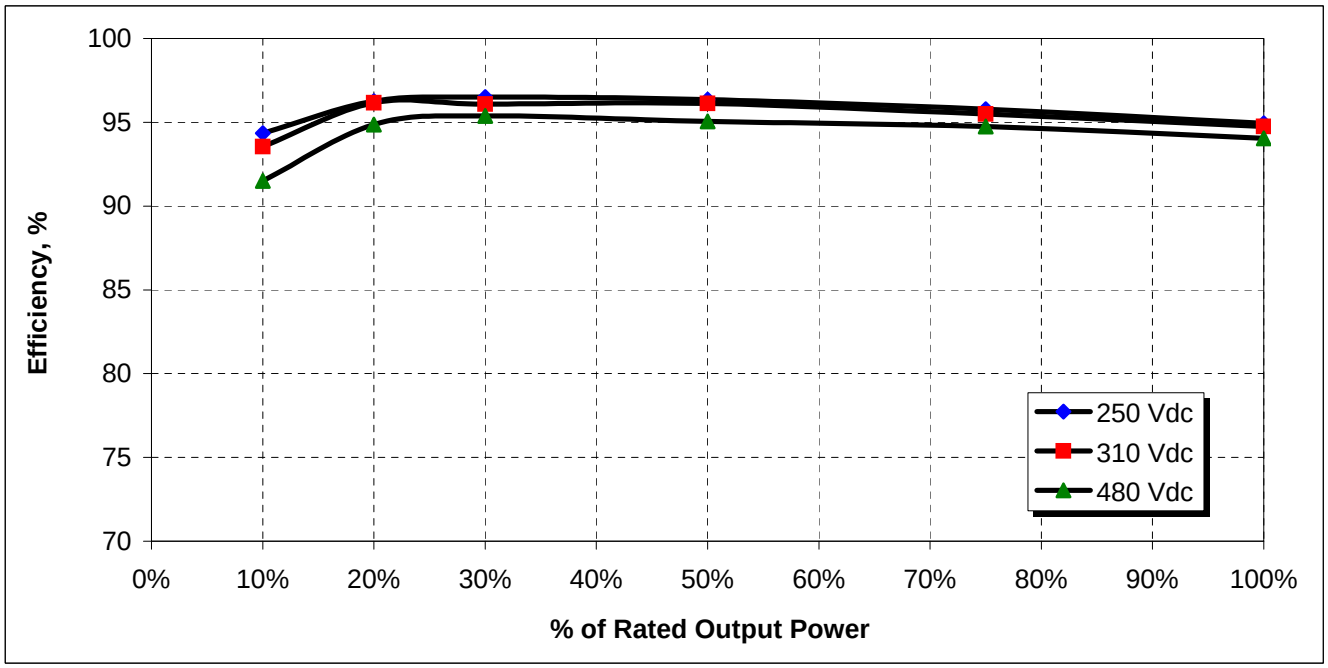
Model #: SB4000US, 208 Vac

Rated Maximum Continuous Output Power: 3.50 kW Night Tare Loss: 0.14 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.35	0.70	1.05	1.75	2.63	3.50	Wtd
Vmin	250	94.3	96.3	96.5	96.4	95.8	94.9	95.9
Vnom	310	93.5	96.2	96.1	96.1	95.5	94.8	95.6
Vmax	480	91.5	94.9	95.4	95.1	94.8	94.0	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	342.4	250.9	94.467	343.7	250.9	94.423	343.1	250.9	94.339	343.3	250.9	94.299	342.8	250.9	94.206
20%	Vmin	748.6	251	96.474	749.9	251	96.351	747.5	251	96.223	748.3	251	96.147	749.6	251	96.133
30%	Vmin	1111.5	251	96.569	1112.9	251	96.541	1111.7	251	96.518	1111.8	251	96.477	1110.9	251	96.435
50%	Vmin	1653	251	96.405	1654.7	251	96.373	1653.6	251	96.352	1654.7	251	96.323	1652.9	251	96.319
75%	Vmin	2488	251.1	95.878	2487	251.2	95.875	2490	251.2	95.769	2489	251.1	95.727	2487	251.1	95.619
100%	Vmin	3365	251.2	95.132	3361	251.4	95.028	3363	251.2	94.972	3364	251.3	94.866	3362	251.3	94.728
10%	Vnom	343.2	310.5	93.600	343.5	310.5	93.571	344.2	310.5	93.568	343.2	310.5	93.515	342.8	310.5	93.490
20%	Vnom	740.6	310.6	96.227	742.1	310.7	96.226	740.9	310.6	96.196	740.6	310.6	96.132	740.7	310.6	96.032
30%	Vnom	1109.2	310.6	96.148	1109.6	310.6	96.140	1109.1	310.6	96.080	1110.3	310.6	96.078	1111.3	310.6	96.018
50%	Vnom	1655.3	310.6	96.173	1655	310.6	96.150	1655.1	310.7	96.109	1655.4	310.6	96.104	1656.7	310.7	96.082
75%	Vnom	2492	310.7	95.552	2491	310.8	95.517	2491	310.7	95.477	2492	310.8	95.477	2493	310.7	95.477
100%	Vnom	3362	310.9	94.811	3364	311	94.811	3363	310.9	94.786	3362	310.8	94.704	3362	310.8	94.678
10%	Vmax	346.1	480.2	91.598	346.3	480.3	91.512	346.6	480.3	91.469	346	480.2	91.462	346	480.2	91.462
20%	Vmax	751.8	480.3	94.877	751.9	480.4	94.870	751.7	480.4	94.864	752.6	480.3	94.841	752.3	480.3	94.840
30%	Vmax	1123.6	480.3	95.418	1124.7	480.2	95.417	1124.6	480.3	95.402	1124.6	480.3	95.378	1124.3	480.4	95.301
50%	Vmax	1656	480.4	95.134	1653.6	480.4	95.073	1654.8	480.3	95.042	1654.2	480.3	95.038	1654.5	480.4	95.026
75%	Vmax	2499	480.5	94.805	2499	480.4	94.769	2498	480.4	94.767	2500	480.4	94.767	2499	480.4	94.659
100%	Vmax	3367	480.3	94.207	3366	480.5	94.108	3365	480.4	94.106	3368	480.6	93.973	3370	480.6	93.846

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															