Manufacturer: SMA Technologie AG

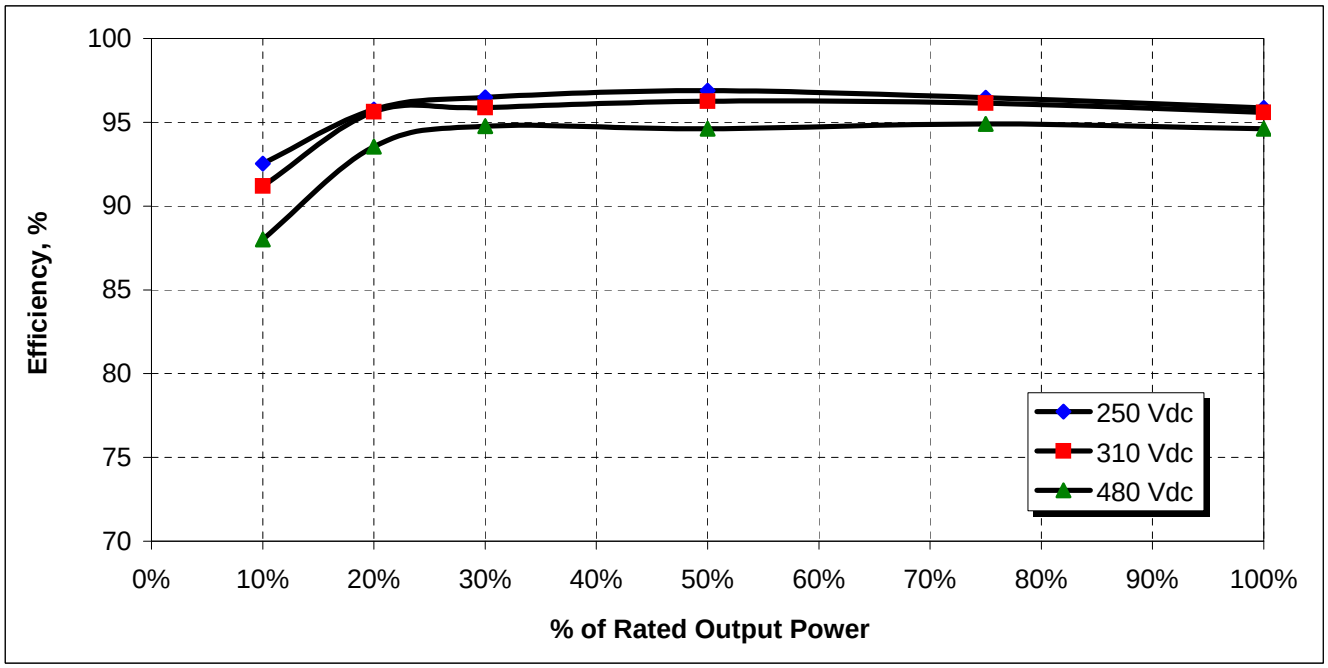
Model #: SB6000US, 208Vac

Rated Maximum Continuous Output Power: 6.00 kW Night Tare Loss: 0.46 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	92.5	95.8	96.5	96.9	96.5	95.9	96.3
Vnom	310	91.2	95.6	95.9	96.3	96.1	95.6	95.9
Vmax	480	88.0	93.5	94.8	94.6	94.9	94.6	94.5

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	590.2	250.1	92.598	590.2	250.1	92.580	589.2	250.1	92.537	590.1	250.1	92.521	590.5	250.1	92.424
20%	Vmin	1130	250	95.763	1130	250	95.763	1130	250	95.763	1130	250	95.763	1130	250	95.763
30%	Vmin	1937	250.2	96.552	1939.4	250.2	96.512	1935.6	250.3	96.496	1938.6	250.3	96.442	1936	250.3	96.440
50%	Vmin	2741	250.4	97.166	2743	250.3	97.097	2744	250.4	97.030	2742	250.4	96.585	2743	250.4	96.515
75%	Vmin	4217	250.4	96.498	4216	250.5	96.478	4220	250.5	96.477	4213	250.5	96.455	4218	250.5	96.454
100%	Vmin	5713	250.4	95.937	5714	250.6	95.907	5715	250.7	95.841	5717	250.7	95.824	5709	250.7	95.806
10%	Vnom	578.7	309.8	91.297	580.1	309.7	91.218	579.2	309.7	91.200	579.3	309.7	91.170	580.4	309.7	91.131
20%	Vnom	1307.1	309.8	95.684	1306.8	309.8	95.619	1307.3	309.8	95.617	1308.4	309.8	95.611	1306.7	309.8	95.589
30%	Vnom	1910.4	309.9	95.905	1911	309.9	95.884	1908.3	309.9	95.875	1910.4	309.9	95.847	1910.6	309.8	95.832
50%	Vnom	2825	310	96.320	2827	310	96.319	2825	310	96.255	2826	309.9	96.221	2829	310	96.187
75%	Vnom	4261	310.1	96.206	4259	310	96.162	4261	310.1	96.142	4258	310.1	96.117	4260	310.1	96.097
100%	Vnom	5761	310.1	95.671	5761	310.1	95.618	5768	310.2	95.556	5770	310.1	95.555	5763	310.2	95.555
10%	Vmax	587.9	478.7	88.087	589.3	478.7	88.047	588.4	478.7	87.999	589.3	478.7	87.959	588.8	478.7	87.926
20%	Vmax	1295.8	478.7	93.585	1295.5	478.7	93.553	1295.3	478.7	93.544	1295.3	478.7	93.537	1296.4	478.7	93.510
30%	Vmax	1922.8	478.8	94.795	1921.9	478.8	94.788	1922.3	478.8	94.768	1920.8	478.7	94.766	1924	478.8	94.726
50%	Vmax	3000	478.7	94.757	3002	478.8	94.672	3001	478.7	94.641	3003	478.8	94.579	3001	478.8	94.430
75%	Vmax	4261	478.8	94.963	4261	478.8	94.942	4261	478.7	94.939	4260	478.8	94.855	4259	478.8	94.794
100%	Vmax	5775	478.8	94.646	5771	478.9	94.645	5777	478.9	94.627	5780	478.9	94.567	5779	478.8	94.548

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															