Manufacturer: SMA Technologie AG

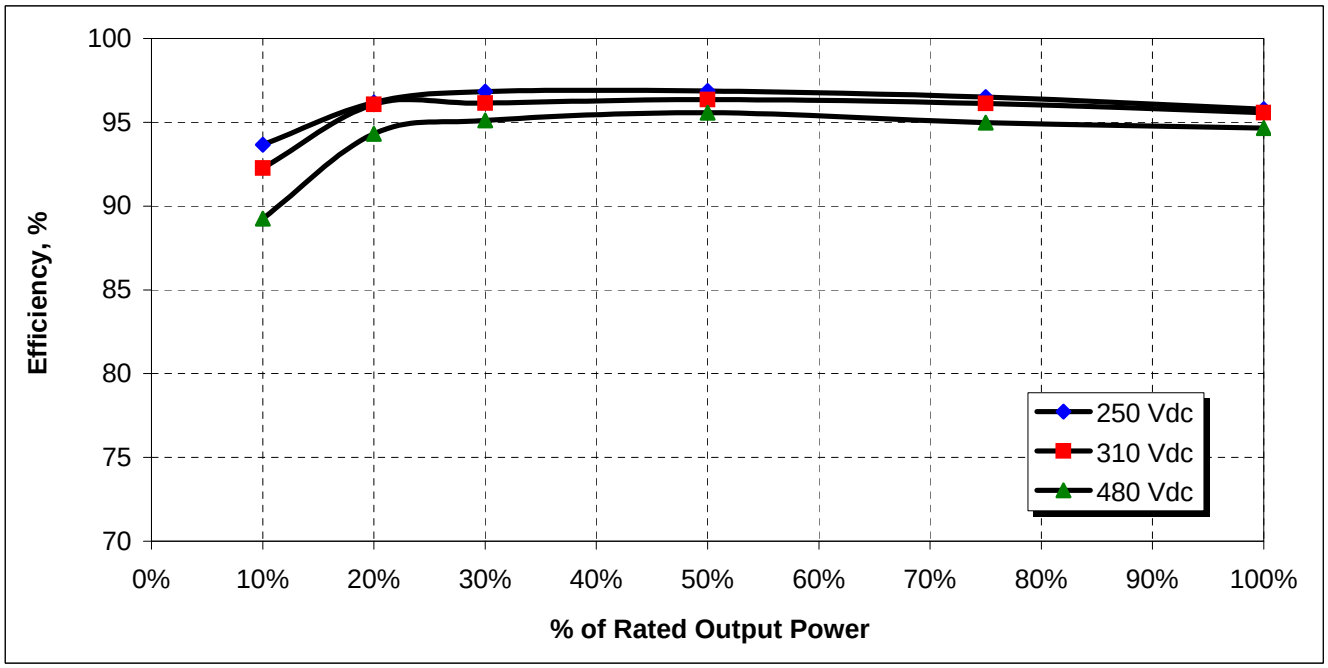
Model #: SB7000US, 240Vac

Rated Maximum Continuous Output Power: 7.00 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)		0.70	1.40	2.10	3.50	5.25	7.00	Wtd
Vmin	250	93.7	96.2	96.8	96.9	96.5	95.8	96.5
Vnom	310	92.3	96.1	96.1	96.4	96.1	95.6	96.0
Vmax	480	89.3	94.3	95.1	95.6	95.0	94.7	94.8

CEC Efficiency = 96.0%



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	678.6	250.1	93.877	677.8	250.1	93.823	679.8	250.1	93.688	677.5	250.1	93.471	680.7	250.1	93.410
20%	Vmin	1510	250	96.178	1510	250	96.178	1510	250	96.178	1510	250	96.178	1510	250	96.178
30%	Vmin	2260	250	96.996	2260	250	96.996	2260	250	96.996	2260	250	96.581	2260	250	96.581
50%	Vmin	3182	250.4	96.922	3177	250.3	96.892	3180	250.4	96.891	3177	250.4	96.830	3179	250.4	96.803
75%	Vmin	4947	250.4	96.550	4948	250.5	96.549	4952	250.5	96.530	4951	250.5	96.511	4954	250.6	96.396
100%	Vmin	6690	251	95.839	6660	251	95.839	6680	250	95.833	6670	251	95.702	6680	251	95.696
10%	Vnom	679.6	309.7	92.490	680.8	309.7	92.287	682.3	309.7	92.274	682.3	309.7	92.177	679.9	309.7	92.099
20%	Vnom	1521.8	309.8	96.093	1521.7	309.8	96.085	1522.6	309.8	96.080	1522.6	309.8	96.066	1521.3	309.9	96.049
30%	Vnom	2250	310	96.195	2250	309.9	96.195	2250	309.9	96.154	2250	310	96.072	2250	309.9	96.068
50%	Vnom	3186	310	96.461	3189	310	96.400	3188	310	96.314	3186	310	96.312	3184	310	96.283
75%	Vnom	4926	310	96.174	4923	310.1	96.136	4925	310.1	96.116	4927	310.1	96.080	4926	310.1	96.077
100%	Vnom	6674	310.1	95.602	6672	310.1	95.574	6673	310.2	95.559	6675	310.2	95.544	6669	310.3	95.533
10%	Vmax	677.9	478.7	89.329	675.7	478.7	89.289	675	478.7	89.263	676.7	478.7	89.244	676.9	478.7	89.142
20%	Vmax	1520.3	478.7	94.338	1521.3	478.7	94.327	1521.3	478.7	94.311	1521.1	478.7	94.289	1520.5	478.6	94.242
30%	Vmax	2251	478.7	95.139	2250	478.8	95.139	2249	478.7	95.097	2250	478.7	95.097	2251	478.7	95.057
50%	Vmax	3193	478.7	96.611	3194	478.7	96.118	3193	478.8	95.681	3192	478.7	95.055	3190	478.7	94.356
75%	Vmax	4952	478.9	94.996	4955	478.9	94.995	4954	478.8	94.975	4955	478.8	94.942	4954	478.8	94.940
100%	Vmax	6663	478.7	94.673	6665	478.7	94.673	6664	478.7	94.659	6662	478.7	94.645	6666	478.7	94.631

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															