Manufacturer: SMA Technologie AG

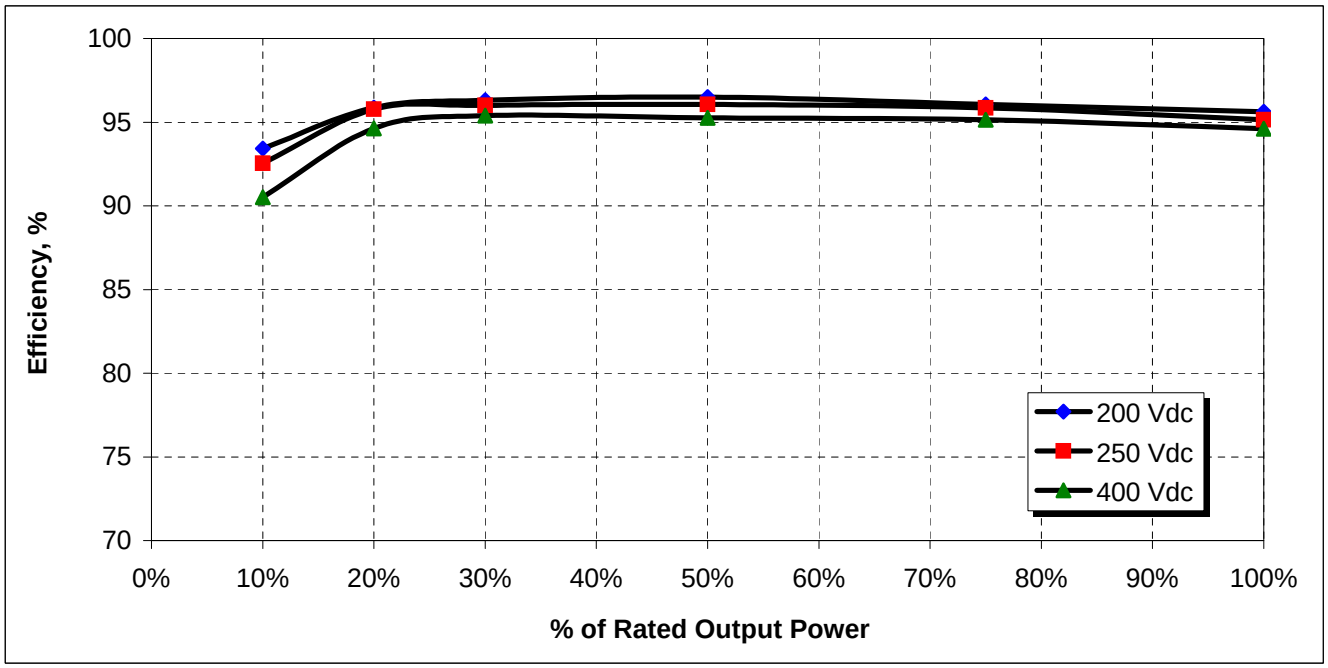
Model #: SB300US, 240Vac

Rated Maximum Continuous Output Power: 3.00 kW Night Tare Loss: 0.07 W

Vmin: 200 Vdc Vnom: 250 Vdc Vmax: 400 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	200	93.4	95.9	96.3	96.5	96.1	95.6	96.0
Vnom	250	92.5	95.8	96.0	96.1	95.8	95.1	95.7
Vmax	400	90.5	94.6	95.4	95.3	95.2	94.6	95.0

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	286.7	200.7	93.540	286.5	200.7	93.536	286.4	200.7	93.534	285.9	200.7	93.309	285.8	200.7	93.216
20%	Vmin	652	201	96.179	651.5	200.9	96.106	649.6	201	95.854	648.5	201	95.649	647.6	201.1	95.530
30%	Vmin	960.6	203	96.378	958.6	202.9	96.322	959.8	203	96.317	959.3	203	96.257	959.1	202.9	96.257
50%	Vmin	1364.8	201.2	96.561	1365.8	201.3	96.550	1363.6	201.2	96.497	1365.6	201.6	96.461	1362.8	201.3	96.400
75%	Vmin	2132	209.1	96.209	2130	208.9	96.206	2128	209	96.029	2127	209.1	95.940	2126	209	95.939
100%	Vmin	2896	210.1	96.053	2891	209.9	95.951	2887	210.2	95.691	2874	210.2	95.260	2872	210.3	95.131
10%	Vnom	292.4	250.6	92.649	292.2	250.6	92.556	292.1	250.5	92.525	292.1	250.6	92.495	292	250.6	92.493
20%	Vnom	648.9	250.6	95.849	648.3	250.6	95.775	648.3	250.6	95.775	648.1	250.6	95.759	648.1	250.6	95.745
30%	Vnom	953.9	250.6	96.033	953.8	250.6	96.023	953.7	250.6	96.013	953.1	250.6	95.982	953.2	250.6	95.963
50%	Vnom	1367.6	250.6	96.114	1366.9	250.6	96.071	1366.6	250.6	96.064	1366.7	250.6	96.057	1365.9	250.6	96.008
75%	Vnom	2116	250.7	95.877	2116	250.7	95.877	2115	250.7	95.831	2115	250.7	95.831	2115	250.7	95.831
100%	Vnom	2861	250.8	95.303	2956	250.8	95.171	2955	250.8	95.108	2955	250.8	95.077	2860	250.7	95.048
10%	Vmax	290.9	399.8	90.623	290.8	399.8	90.592	290.5	399.8	90.498	290.4	399.8	90.439	290.4	399.8	90.439
20%	Vmax	643.6	399.8	94.703	643.6	399.8	94.689	643	399.9	94.601	643	399.8	94.601	642.8	399.8	94.585
30%	Vmax	962.4	399.8	95.429	962.3	399.8	95.409	962.1	399.9	95.371	961.9	399.8	95.370	961.7	399.9	95.369
50%	Vmax	1367	399.9	95.288	1367	399.9	95.281	1366.4	399.9	95.259	1366.5	399.9	95.253	1366.1	399.9	95.219
75%	Vmax	2120	399.9	95.195	2119	399.9	95.193	2119	399.9	95.150	2119	399.9	95.108	2119	399.9	95.108
100%	Vmax	2854	399.9	94.660	2854	399.9	94.629	2854	400	94.629	2854	399.9	94.597	2854	399.9	94.566

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															