Manufacturer: SMA Technology AG

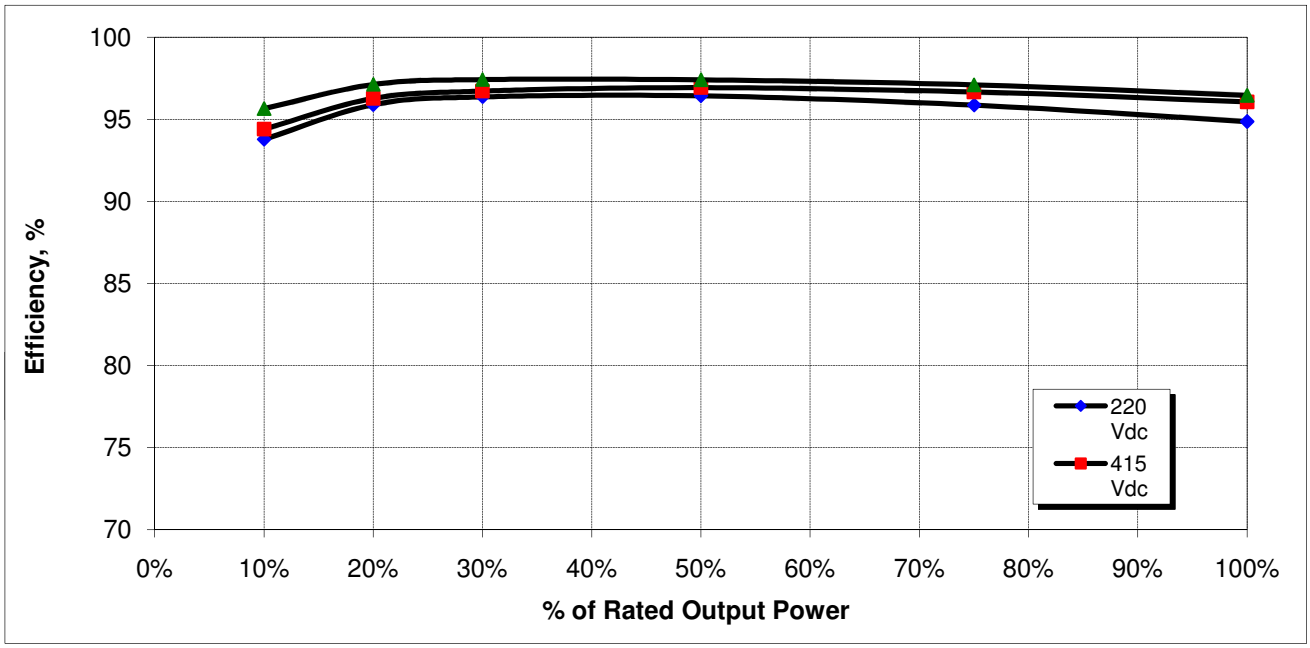
Model #: SB3000HFUS-30 - 240V

Rated Maximum Continuous Output Power: 3.07 kW Night Tare Loss: 1.10 W

Vmin: 220 Vdc Vnom: 415 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.31	0.61	0.92	1.54	2.30	3.07	Wtd
Vmin	220	93.8	95.9	96.4	96.4	95.9	94.9	95.9
Vnom	415	94.4	96.3	96.7	96.9	96.7	96.1	96.6
Vmax	480	95.7	97.1	97.4	97.4	97.1	96.5	97.1

CEC Efficiency = 96.5%



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	356.7	220.92	93.700	356.5	220.86	93.755	356.5	220.81	93.714	356.5	220.85	93.881	356.4	220.79	93.740
20%	Vmin	656.4	220.93	95.853	656.3	220.92	95.868	656.4	220.9	95.913	656.4	220.86	95.906	656.4	220.91	95.869
30%	Vmin	907.14	220.91	96.375	907.2	220.93	96.368	907.3	220.91	96.355	907.2	220.9	96.389	907	220.85	96.396
50%	Vmin	1501.9	221.03	96.405	1503	221.12	96.413	1503	221.11	96.430	1503	221.12	96.400	1503	221.09	96.438
75%	Vmin	2113.9	221.19	95.814	2115	221.23	95.849	2115	221.22	95.860	2115	221.25	95.861	2115	221.25	95.867
100%	Vmin	2860	221	94.900	2860	221	94.800	2860	221	94.900	2860	221	94.900	2860	221	94.900
10%	Vnom	355.07	415.32	94.483	355.1	415.32	94.286	355.2	415.33	94.415	355.2	415.3	94.293	355.3	415.29	94.468
20%	Vnom	657.12	415.34	96.393	657.3	415.35	96.254	657.3	415.36	96.228	657.5	415.36	96.241	657.3	415.31	96.268
30%	Vnom	901.08	415.3	96.688	901.1	415.3	96.662	901.1	415.29	96.791	901.1	415.26	96.723	901.1	415.28	96.688
50%	Vnom	1505.2	415.35	96.948	1505	415.35	96.917	1505	415.38	96.937	1505	415.33	96.952	1505	415.34	96.961
75%	Vnom	2113.2	415.45	96.681	2114	415.41	96.623	2114	415.37	96.648	2114	415.36	96.696	2113	415.39	96.694
100%	Vnom	2864.1	415.42	96.060	2863	415.44	96.061	2858	415.49	96.077	2856	415.49	96.072	2856	415.5	96.075
10%	Vmax	358.16	480.05	95.578	358.3	480.05	95.733	358.3	480.04	95.651	358.4	480.02	95.657	358.4	480.07	95.747
20%	Vmax	655.41	480.1	97.110	655.6	480.16	97.192	655.1	480.12	97.100	655.4	480.12	97.197	655.3	480.11	97.135
30%	Vmax	906.26	480.17	97.369	906.3	480.2	97.464	906.3	480.17	97.450	906.3	480.19	97.387	906.1	480.1	97.437
50%	Vmax	1500	480	97.400	1500	480	97.400	1500	480	97.400	1500	480	97.500	1500	480	97.400
75%	Vmax	2118.9	480.26	97.100	2119	480.27	97.127	2119	480.23	97.075	2119	480.16	97.092	2119	480.19	97.129
100%	Vmax	2885.4	480.22	96.435	2886	480.24	96.456	2886	480.25	96.452	2886	480.3	96.493	2886	480.23	96.449

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	356.46	220.79	93.770	356.4	220.78	93.779	356.5	220.77	93.770	356.3	220.73	93.872	356.4	220.73	93.779
20%	Vmin	656.51	220.91	95.872	656.4	220.88	95.902	656.3	220.87	95.895	656.4	220.89	95.863	656.5	220.91	95.937
30%	Vmin	907.14	220.91	96.356	907.1	220.92	96.316	907.2	220.92	96.364	907.1	220.91	96.333	906.8	220.84	96.395
50%	Vmin	1502.9	221.07	96.424	1503	221.08	96.464	1503	221.09	96.427	1503	221.09	96.437	1503	221.1	96.435
75%	Vmin	2115.1	221.25	95.861	2115	221.25	95.867	2116	221.29	95.881	2115	221.22	95.881	2116	221.23	95.876
100%	Vmin	2850	221	94.800	2860	221	94.900	2860	221	94.800	2860	221	94.900	2850	221	94.800
10%	Vnom	355.12	415.26	94.490	355.2	415.26	94.229	355.2	415.28	94.378	355.3	415.26	94.582	355.3	415.28	94.473
20%	Vnom	657.41	415.32	96.272	657.2	415.26	96.338	657.4	415.28	96.178	657.3	415.3	96.332	657.3	415.27	96.269
30%	Vnom	901.13	415.3	96.716	901.2	415.36	96.706	901.3	415.34	96.777	901.1	415.32	96.705	901.2	415.3	96.748
50%	Vnom	1505.2	415.34	96.894	1505	415.39	96.924	1505	415.35	96.924	1505	415.35	96.959	1505	415.38	96.944
75%	Vnom	2113.9	415.33	96.666	2114	415.33	96.660	2114	415.36	96.686	2114	415.35	96.675	2114	415.36	96.692
100%	Vnom	2865.5	415.4	96.061	2865	415.41	96.062	2866	415.41	96.085	2863	415.44	96.067	2865	415.41	96.078
10%	Vmax	358.42	480.04	95.710	358.4	480.03	95.631	358.4	480.02	95.557	358.6	480.03	95.876	358.5	480.08	95.422
20%	Vmax	655.32	480.08	97.166	655.5	480.12	97.110	655.3	480.13	97.005	655.3	480.05	97.038	655.4	480.12	97.207
30%	Vmax	906.2	480.13	97.439	906.2	480.06	97.391	906.1	480.13	97.417	906.2	480.14	97.482	906.3	480.14	97.418
50%	Vmax	1500	480	97.400	1500	480	97.400	1500	480	97.400	1500	480	97.400	1500	480	97.400
75%	Vmax	2119.2	480.23	97.095	2119	480.24	97.102	2119	480.23	97.129	2119	480.21	97.055	2119	480.16	97.116
100%	Vmax	2885.5	480.26	96.497	2885	480.22	96.436	2885	480.22	96.429	2886	480.29	96.476	2886	480.31	96.486