Manufacturer: SMA Technology AG

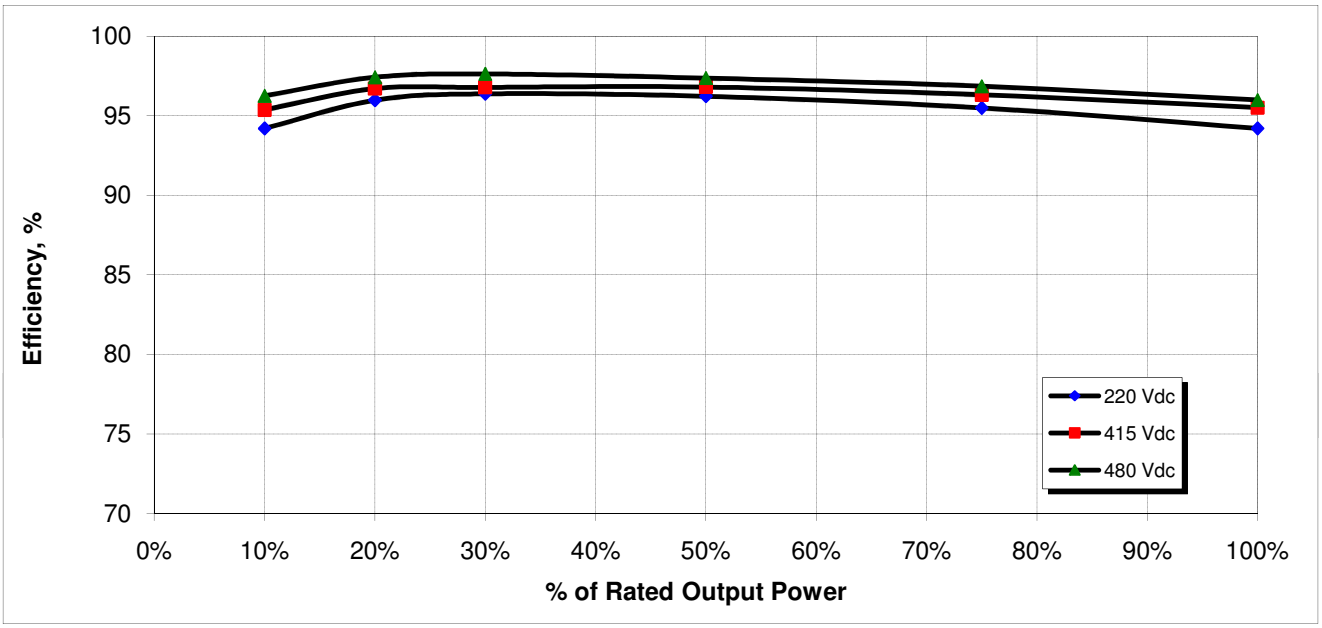
Model #: SB3000HFUS-30- 208V

Rated Maximum Continuous Output Power: 3.01 kW Night Tare Loss: 0.90 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.30	0.60	0.90	1.50	2.25	3.01	Wtd
Vmin	220	94.2	96.0	96.4	96.2	95.5	94.2	95.7
Vnom	415	95.4	96.7	96.8	96.8	96.3	95.5	96.4
Vmax	480	96.2	97.4	97.6	97.4	96.8	96.0	97.0

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	356.93	220.56	94.139	356.9	220.56	94.178	357.1	220.57	94.240	356.8	220.47	94.187	357.1	220.56	94.270
20%	Vmin	654.9	220.58	95.975	654.7	220.5	95.960	654.8	220.57	95.988	654.8	220.55	96.006	654.8	220.6	95.993
30%	Vmin	902.34	220.63	96.393	902.2	220.6	96.382	902.1	220.59	96.333	902.1	220.53	96.363	902	220.53	96.396
50%	Vmin	1504.7	220.63	96.189	1505	220.62	96.187	1505	220.66	96.212	1505	220.66	96.209	1506	220.7	96.234
75%	Vmin	2110.8	220.63	95.439	2112	220.68	95.427	2112	220.63	95.476	2113	220.73	95.479	2113	220.73	95.483
100%	Vmin	2860	221	94.200	2860	221	94.200	2860	221	94.200	2860	221	94.200	2860	221	94.200
10%	Vnom	354.34	414.99	95.505	354.2	414.95	95.413	354.3	414.98	95.535	354.4	414.98	95.015	354.5	415.01	95.345
20%	Vnom	654.86	415.05	96.776	654.9	415.08	96.588	654.8	415.06	96.593	654.9	415.09	96.776	654.9	415.09	96.775
30%	Vnom	906.09	414.84	96.780	906.1	414.87	96.700	906.2	414.88	96.822	906.2	414.83	96.767	906.2	414.87	96.722
50%	Vnom	1502	414.98	96.812	1502	414.91	96.781	1502	414.94	96.786	1502	414.97	96.803	1502	414.97	96.868
75%	Vnom	2116.9	414.95	96.278	2117	415.02	96.303	2117	414.94	96.309	2118	414.99	96.270	2118	414.93	96.308
100%	Vnom	2858.2	415	95.491	2858	414.94	95.503	2858	415	95.506	2858	415	95.493	2858	414.95	95.497
10%	Vmax	357.99	479.48	96.263	358	479.48	96.470	357.9	479.5	96.152	358	479.51	96.306	357.9	479.46	96.075
20%	Vmax	656.79	479.59	97.334	656.7	479.54	97.479	656.9	479.57	97.425	656.7	479.54	97.392	656.8	479.52	97.381
30%	Vmax	903.61	479.56	97.619	903.9	479.56	97.623	903.8	479.51	97.619	903.9	479.51	97.596	903.9	479.5	97.632
50%	Vmax	1510	480	97.400	1510	480	97.300	1510	480	97.400	1510	480	97.300	1510	479	97.400
75%	Vmax	2115.7	479.46	96.833	2116	479.45	96.832	2116	479.37	96.830	2116	479.42	96.816	2116	479.42	96.875
100%	Vmax	2887.2	479.55	96.011	2887	479.58	95.971	2887	479.52	95.997	2887	479.5	95.985	2887	479.54	95.996

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	357	220.58	94.185	357	220.54	94.205	357	220.54	94.101	356.9	220.51	94.203	357.1	220.56	94.260
20%	Vmin	654.99	220.61	95.965	654.9	220.57	95.979	654.7	220.54	95.924	654.9	220.6	96.010	655.1	220.7	95.939
30%	Vmin	902.26	220.57	96.427	902.3	220.58	96.388	902.2	220.55	96.389	902.4	220.6	96.366	902.3	220.62	96.339
50%	Vmin	1505.2	220.61	96.228	1506	220.68	96.210	1506	220.71	96.242	1506	220.73	96.267	1506	220.68	96.231
75%	Vmin	2113.5	220.77	95.488	2114	220.77	95.516	2114	220.76	95.521	2114	220.73	95.514	2114	220.76	95.528
100%	Vmin	2860	221	94.200	2860	221	94.200	2860	221	94.200	2860	221	94.200	2860	221	94.200
10%	Vnom	354.52	415.08	95.403	354.5	415.1	95.422	354.5	415.04	95.229	354.6	415.07	95.212	354.5	415.09	95.483
20%	Vnom	655	415.15	96.667	655.1	415.16	96.769	655	415.11	96.646	655	415.11	96.754	655.1	415.12	96.717
30%	Vnom	906.26	414.84	96.845	906.2	414.81	96.797	906.2	414.82	96.854	906.2	414.84	96.762	906.2	414.81	96.789
50%	Vnom	1502.1	414.89	96.819	1502	414.91	96.777	1502	414.92	96.836	1502	414.91	96.777	1502	414.93	96.819
75%	Vnom	2118	414.99	96.290	2118	414.96	96.343	2118	414.94	96.310	2118	415	96.340	2118	414.98	96.334
100%	Vnom	2857.7	414.94	95.506	2858	414.98	95.519	2858	415	95.487	2858	414.97	95.506	2858	415	95.534
10%	Vmax	358.01	479.45	96.228	358	479.4	96.316	357.9	479.42	96.141	358	479.4	96.316	358	479.47	96.215
20%	Vmax	656.67	479.48	97.374	656.8	479.5	97.370	656.8	479.47	97.486	656.8	479.5	97.370	656.8	479.45	97.505
30%	Vmax	903.87	479.51	97.565	904	479.55	97.616	903.9	479.54	97.666	904	479.55	97.616	903.9	479.53	97.667
50%	Vmax	1510	479	97.400	1510	479	97.300	1510	479	97.400	1510	479	97.300	1510	479	97.400
75%	Vmax	2116.1	479.39	96.870	2116	479.39	96.856	2116	479.4	96.838	2116	479.39	96.856	2116	479.4	96.846
100%	Vmax	2887.2	479.55	95.961	2887	479.52	95.974	2887	479.52	95.987	2887	479.52	95.974	2887	479.48	95.975