Manufacturer: SMA Technology AG

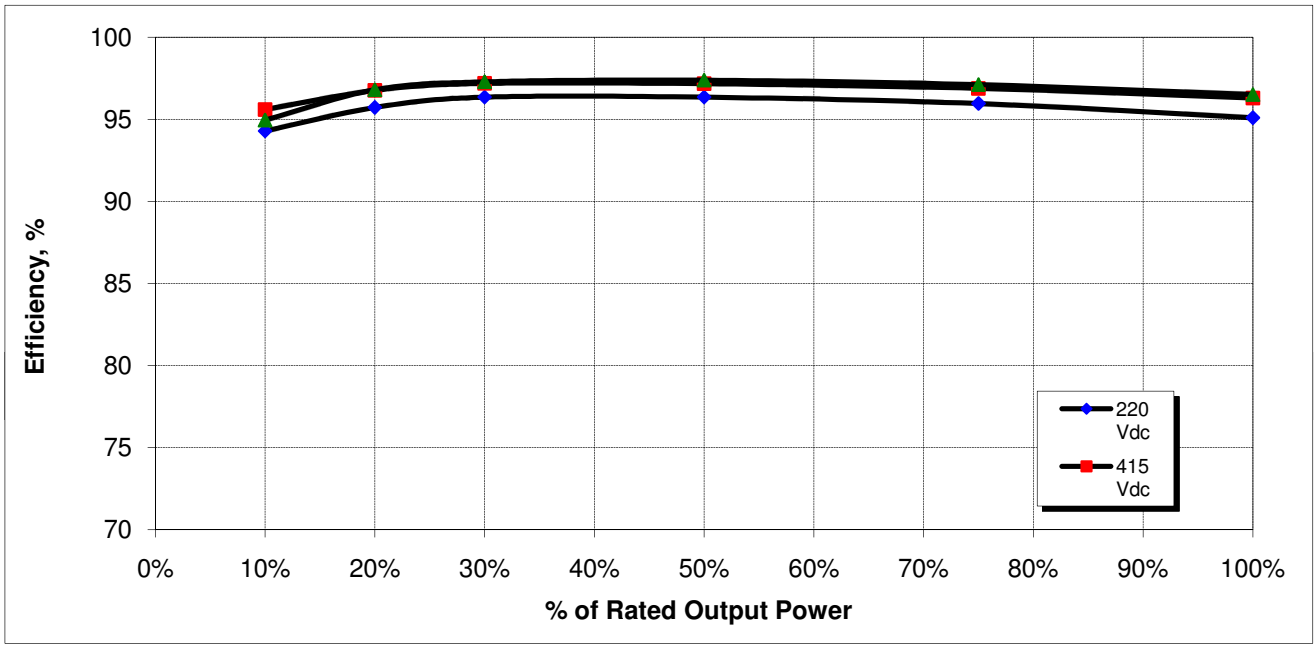
Model #: SB2500HFUS-30-208V

Rated Maximum Continuous Output Power: 2.53 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)		0.25	0.51	0.76	1.27	1.90	2.53	Wtd
Vmin	220	94.3	95.7	96.4	96.4	96.0	95.1	96.0
Vnom	415	95.6	96.8	97.2	97.2	96.9	96.3	96.9
Vmax	480	95.0	96.8	97.3	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	295.73	220.49	94.304	295.7	220.45	94.308	295.8	220.5	94.320	295.7	220.51	94.206	295.8	220.55	94.302
20%	Vmin	541.67	220.45	95.748	541.6	220.46	95.734	541.7	220.45	95.716	541.6	220.4	95.710	541.6	220.39	95.749
30%	Vmin	809.87	220.63	96.366	809.9	220.64	96.345	809.8	220.63	96.332	810.2	220.7	96.334	809.9	220.63	96.359
50%	Vmin	809.87	220.63	96.366	809.9	220.64	96.345	809.8	220.63	96.332	810.2	220.7	96.334	809.9	220.63	96.359
75%	Vmin	1797.6	220.79	95.941	1797	220.75	95.923	1798	220.75	95.942	1798	220.74	95.965	1798	220.79	95.956
100%	Vmin	2451.8	220.86	95.102	2452	220.91	95.118	2452	220.88	95.085	2452	220.86	95.078	2452	220.89	95.106
10%	Vnom	292.66	415.19	95.439	292.7	415.14	95.707	292.7	415.21	95.606	292.7	415.16	95.663	292.7	415.17	95.670
20%	Vnom	550.87	415	96.737	550.9	415.01	96.776	551	415.04	96.818	551	415.05	96.772	550.9	415.03	96.737
30%	Vnom	814.68	414.92	97.192	814.7	414.94	97.225	814.8	414.93	97.135	814.7	414.87	97.141	814.8	414.91	97.272
50%	Vnom	1272.2	414.96	97.159	1272	414.9	97.181	1272	414.9	97.157	1272	414.87	97.140	1272	414.88	97.202
75%	Vnom	1797	415.05	96.892	1797	414.98	96.906	1796	414.87	96.895	1797	414.96	96.863	1797	414.98	96.839
100%	Vnom	2437.6	415.15	96.298	2438	415.16	96.304	2438	415.15	96.299	2437	415.1	96.297	2437	415.06	96.291
10%	Vmax	291.44	479.6	94.914	291.5	479.63	95.037	291.5	479.55	94.597	291.5	479.63	95.031	291.5	479.62	95.132
20%	Vmax	554.05	479.64	96.855	554.2	479.7	96.819	554.1	479.63	96.762	554.2	479.66	96.805	554.1	479.61	96.766
30%	Vmax	803.74	479.63	97.269	803.8	479.67	97.305	803.9	479.69	97.367	803.8	479.61	97.234	803.9	479.63	97.315
50%	Vmax	1272.1	479.61	97.429	1272	479.62	97.389	1272	479.64	97.465	1272	479.73	97.360	1273	479.74	97.377
75%	Vmax	1808.5	479.63	97.147	1809	479.66	97.095	1809	479.61	97.132	1809	479.57	97.059	1809	479.64	97.136
100%	Vmax	2471.3	479.65	96.510	2471	479.6	96.509	2471	479.61	96.514	2471	479.69	96.506	2471	479.7	96.484

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	295.79	220.51	94.295	295.8	220.53	94.483	295.8	220.51	94.210	295.9	220.5	94.313	295.7	220.49	94.207
20%	Vmin	541.65	220.4	95.685	541.5	220.38	95.692	541.6	220.38	95.707	541.7	220.47	95.759	541.9	220.5	95.753
30%	Vmin	809.88	220.6	96.382	809.6	220.56	96.339	809.7	220.55	96.400	809.7	220.57	96.346	809.7	220.58	96.331
50%	Vmin	809.88	220.6	96.382	809.6	220.56	96.339	809.7	220.55	96.400	809.7	220.57	96.346	809.7	220.58	96.331
75%	Vmin	1798.5	220.81	95.977	1799	220.82	95.963	1798	220.73	95.973	1798	220.72	95.992	1798	220.72	95.996
100%	Vmin	2452.5	220.93	95.091	2453	220.96	95.100	2453	220.94	95.105	2452	220.91	95.094	2451	220.84	95.106
10%	Vnom	292.69	415.14	95.503	292.7	415.15	95.470	292.7	415.21	95.449	292.7	415.18	95.726	292.7	415.18	95.657
20%	Vnom	550.86	414.99	96.665	550.9	414.98	96.706	550.9	414.98	96.849	550.9	415	96.784	550.9	415	96.783
30%	Vnom	814.8	414.93	97.101	814.7	414.88	97.175	814.7	414.87	97.203	814.6	414.85	97.213	814.6	414.86	97.229
50%	Vnom	1272.1	414.86	97.207	1272	414.85	97.170	1272	414.89	97.145	1272	414.86	97.202	1272	414.89	97.144
75%	Vnom	1796.7	414.89	96.927	1797	414.94	96.867	1797	415.03	96.904	1797	415.03	96.871	1797	415	96.909
100%	Vnom	2437.1	415.06	96.290	2437	415.08	96.288	2437	415.03	96.307	2437	415	96.308	2437	415.08	96.272
10%	Vmax	291.51	479.64	95.029	291.5	479.63	95.001	291.5	479.62	94.909	291.6	479.66	94.843	291.6	479.66	95.120
20%	Vmax	554.15	479.6	96.914	554.1	479.65	96.826	554.2	479.66	96.766	554.1	479.6	96.760	554	479.57	96.752
30%	Vmax	803.92	479.69	97.213	803.9	479.69	97.195	803.9	479.67	97.335	803.8	479.63	97.329	803.9	479.65	97.277
50%	Vmax	1272.4	479.7	97.331	1273	479.74	97.334	1272	479.66	97.417	1272	479.66	97.348	1273	479.73	97.364
75%	Vmax	1809.1	479.66	97.118	1809	479.64	97.111	1809	479.61	97.109	1809	479.6	97.133	1809	479.63	97.095
100%	Vmax	2471.3	479.65	96.512	2471	479.63	96.515	2471	479.61	96.499	2471	479.52	96.505	2471	479.56	96.512