Manufacturer: SMA America

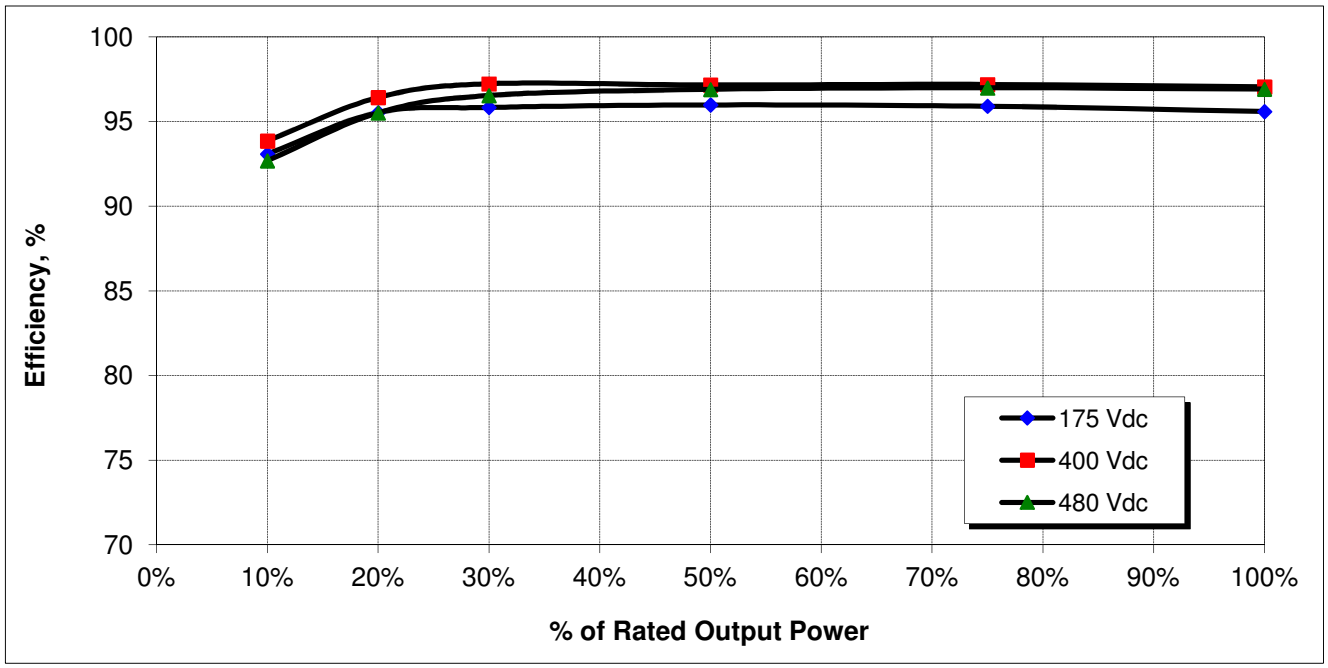
Model #: SB3800TL-US-22 (240V)

Rated Maximum Continuous Output Power: 3.80 kW Night Tare Loss: 0.99 W

Vmin: 175 Vdc Vnom: 400 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.38	0.76	1.14	1.90	2.85	3.80	Wtd
Vmin	175	93.1	95.5	95.8	96.0	95.9	95.6	95.8
Vnom	400	93.8	96.4	97.2	97.2	97.2	97.0	97.0
Vmax	480	92.7	95.5	96.5	96.9	97.0	96.9	96.7

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	339	172.2	93.132	339	172.21	92.877	339	172.19	93.132	339	172.21	93.132	339	172.19	93.132
20%	Vmin	764	172.22	95.500	765	172.18	95.625	765	172.2	95.625	765	172.21	95.506	764	172.2	95.381
30%	Vmin	1148	172.19	95.906	1147	172.21	95.743	1149	172.21	95.830	1148	172.2	95.826	1148	172.18	95.826
50%	Vmin	1875	172.51	95.957	1876	172.5	96.008	1876	172.52	96.008	1876	172.52	95.959	1874	172.5	95.955
75%	Vmin	2713	172.51	95.900	2714	172.51	95.901	2714	172.51	95.901	2714	172.52	95.867	2715	172.52	95.936
100%	Vmin	3692	172.51	95.573	3692	172.5	95.623	3690	172.5	95.571	3690	172.49	95.571	3694	172.5	95.600
10%	Vnom	358	397.04	93.473	360	397.03	93.750	359	397.03	93.490	361	398.36	94.256	362	398.37	94.271
20%	Vnom	789	398.53	96.459	790	398.5	96.455	789	398.49	96.459	790	398.48	96.341	790	398.48	96.341
30%	Vnom	1225	398.61	97.222	1224	398.62	97.143	1225	398.61	97.222	1225	398.61	97.222	1224	398.59	97.297
50%	Vnom	1930	398.66	97.131	1931	398.68	97.182	1930	398.67	97.180	1930	398.66	97.131	1930	398.67	97.131
75%	Vnom	2787	398.75	97.176	2787	398.76	97.210	2787	398.73	97.210	2788	398.76	97.177	2785	398.77	97.140
100%	Vnom	3923	398.91	97.043	3921	398.88	97.016	3920	398.89	97.041	3920	398.88	97.041	3921	398.88	97.042
10%	Vmax	359	478.56	93.005	360	478.54	93.023	360	478.53	93.023	354	477.03	92.188	353	477.06	92.167
20%	Vmax	788	478.64	95.631	791	478.61	95.763	789	478.61	95.869	782	477.07	95.134	782	477.08	95.134
30%	Vmax	1190	478.64	96.513	1190	478.6	96.513	1190	478.6	96.513	1191	478.65	96.594	1189	478.65	96.510
50%	Vmax	1935	478.79	96.895	1935	478.83	96.895	1934	478.79	96.894	1936	478.81	96.897	1933	478.8	96.892
75%	Vmax	2796	478.86	97.016	2796	478.88	96.949	2797	478.87	96.983	2796	478.87	96.949	2798	478.88	97.018
100%	Vmax	3808	478.94	96.896	3809	478.96	96.921	3809	478.94	96.921	3808	478.95	96.896	3809	478.96	96.921

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															