Manufacturer: SMA America

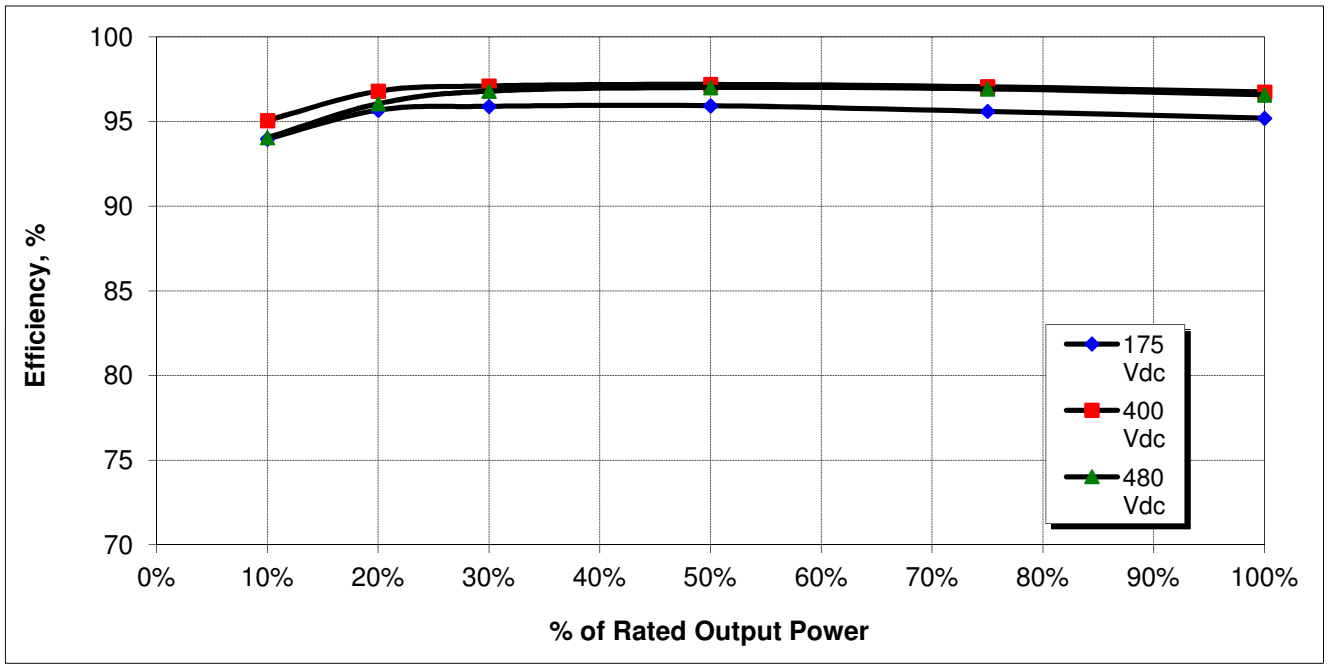
Model #: SB5000TL-US-22 (240V)

Rated Maximum Continuous Output Power: 5.07 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)		0.51	1.01	1.52	2.54	3.80	5.07	Wtd
Vmin	175	94.0	95.7	95.9	95.9	95.6	95.2	95.6
Vnom	400	95.1	96.8	97.1	97.2	97.1	96.7	97.0
Vmax	480	94.1	96.0	96.8	97.0	96.9	96.6	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	448	173.18	93.920	449	173.16	93.933	448	173.17	93.920	449	173.17	93.933	450	173.19	94.142
20%	Vmin	1006	173.2	95.537	1007	173.22	95.632	1008	173.21	95.726	1008	173.21	95.726	1008	173.21	95.726
30%	Vmin	1509	173.17	95.870	1509	173.19	95.870	1509	173.19	95.870	1510	173.18	95.934	1510	173.18	95.934
50%	Vmin	2461	173.15	95.908	2461	173.13	95.945	2462	173.14	95.947	2461	173.15	95.908	2462	173.14	95.947
75%	Vmin	3552	173.21	95.561	3553	173.21	95.614	3553	173.19	95.614	3552	173.2	95.587	3553	173.2	95.614
100%	Vmin	4869	173.19	95.209	4875	173.19	95.196	4901	173.18	95.202	4900	173.18	95.183	4899	173.18	95.182
10%	Vnom	476	399.14	95.391	470	398.22	94.567	471	398.23	94.578	475	399.16	95.382	476	399.15	95.391
20%	Vnom	1044	399.25	96.756	1044	399.24	96.753	1043	399.25	96.750	1042	399.25	96.849	1045	399.25	96.849
30%	Vnom	1555	399.27	97.066	1556	399.28	97.068	1557	399.27	97.130	1558	399.3	97.193	1557	399.25	97.070
50%	Vnom	2529	399.29	97.194	2529	399.33	97.194	2531	399.36	97.159	2530	399.33	97.196	2530	399.32	97.233
75%	Vnom	3646	399.49	97.020	3649	399.46	97.074	3648	399.46	97.047	3649	399.49	97.048	3648	399.47	97.073
100%	Vnom	5123	397.96	96.525	5122	397.94	96.525	5010	399.87	96.886	5000	399.86	96.900	5003	399.86	96.882
10%	Vmax	472	479.33	94.400	473	479.31	94.223	475	479.29	94.433	468	478.35	93.600	469	478.34	93.613
20%	Vmax	1037	479.39	96.375	1036	479.39	96.283	1027	478.31	95.802	1027	478.37	95.892	1027	478.34	95.892
30%	Vmax	1556	479.49	96.706	1557	479.48	96.828	1557	479.49	96.828	1558	479.47	96.830	1557	479.49	96.768
50%	Vmax	2531	479.54	96.973	2532	479.56	97.011	2531	479.54	97.010	2533	479.56	97.013	2533	479.55	97.013
75%	Vmax	3654	479.66	96.923	3652	479.68	96.921	3654	479.66	96.923	3654	479.68	96.949	3650	479.68	96.894
100%	Vmax	4945	478.31	96.356	4944	478.3	96.318	4981	479.76	96.756	4979	479.75	96.698	4980	479.77	96.737

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															