Manufacturer: SMA America

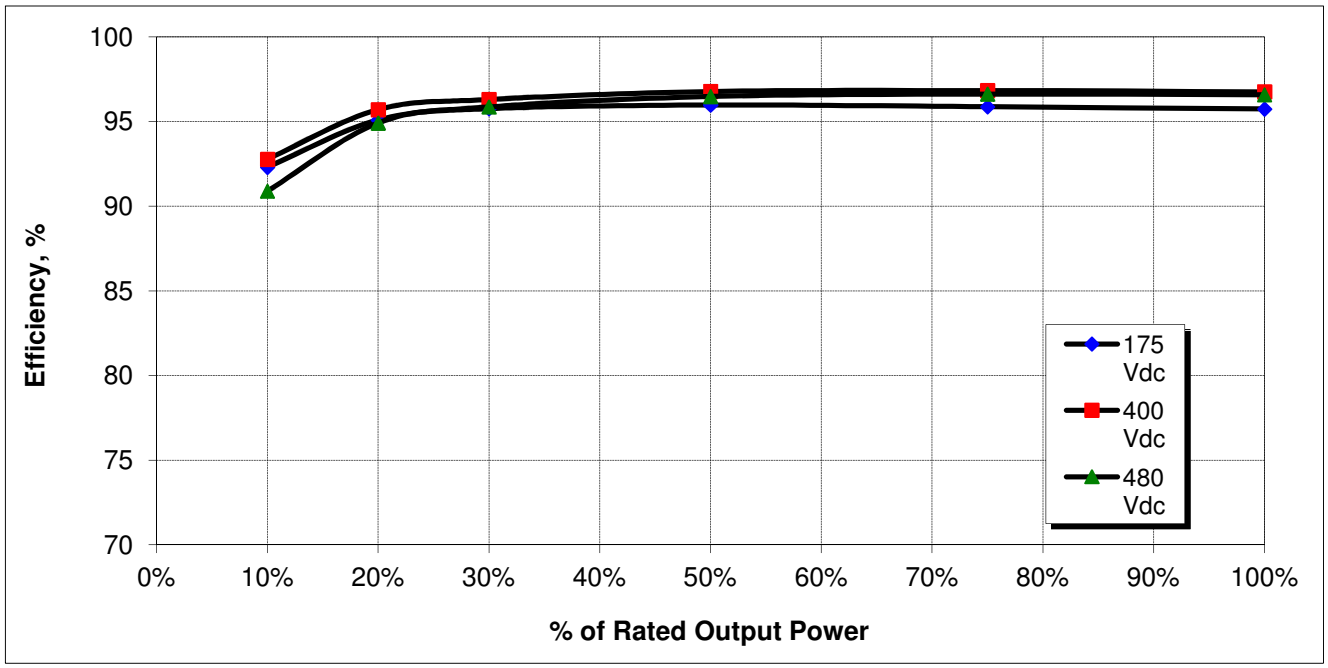
Model #: SB3000TL-US-22

Rated Maximum Continuous Output Power: 3.00 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)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	175	92.3	95.1	95.8	96.0	95.9	95.7	95.7
Vnom	400	92.8	95.7	96.3	96.8	96.8	96.8	96.5
Vmax	480	90.9	94.9	95.9	96.5	96.6	96.6	96.2

CEC Efficiency = 96.0%



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	271	172.5	92.491	271	172.49	92.177	271	172.5	92.491	271	172.49	92.177	271	172.51	92.177
20%	Vmin	612	172.55	95.179	612	172.55	95.179	611	172.56	95.023	612	172.54	95.031	612	172.54	95.031
30%	Vmin	917	172.49	95.720	917	172.51	95.820	917	172.49	95.820	916	172.5	95.716	917	172.51	95.720
50%	Vmin	1525	172.5	95.912	1526	172.49	95.975	1526	172.48	96.035	1526	172.5	96.035	1526	172.48	95.915
75%	Vmin	2194	172.55	95.892	2193	172.53	95.890	2193	172.53	95.848	2193	172.52	95.848	2194	172.53	95.892
100%	Vmin	2954	172.51	95.754	2952	172.49	95.720	2953	172.5	95.752	2952	172.47	95.751	2952	172.49	95.720
10%	Vnom	282	398.46	93.069	283	398.45	92.787	282	398.47	92.763	283	398.44	92.484	282	398.46	92.763
20%	Vnom	633	398.6	95.626	634	398.57	95.764	633	398.59	95.619	633	398.58	95.764	633	398.58	95.764
30%	Vnom	945	398.65	96.330	943	398.67	96.323	945	398.67	96.330	943	398.65	96.224	943	398.66	96.323
50%	Vnom	1571	398.72	96.796	1571	398.71	96.796	1569	398.7	96.732	1570	398.74	96.794	1569	398.71	96.792
75%	Vnom	2257	398.86	96.867	2257	398.86	96.825	2257	398.84	96.825	2258	398.83	96.827	2257	398.86	96.825
100%	Vnom	3133	398.87	96.776	3134	398.88	96.745	3133	398.88	96.776	3133	398.84	96.744	3132	398.86	96.743
10%	Vmax	278	477.64	90.260	284	478.51	91.613	282	477.63	90.968	279	477.58	90.000	284	478.55	91.613
20%	Vmax	630	478.69	94.880	631	478.69	94.887	631	478.67	94.887	631	478.68	94.887	631	478.69	95.030
30%	Vmax	944	478.72	95.838	945	478.71	95.842	945	478.72	95.939	944	478.73	95.838	945	478.68	95.842
50%	Vmax	1568	478.75	96.433	1569	478.76	96.494	1569	478.76	96.494	1567	478.75	96.490	1568	478.78	96.492
75%	Vmax	2252	478.83	96.611	2251	478.89	96.609	2252	478.88	96.611	2252	478.88	96.652	2252	478.89	96.611
100%	Vmax	3025	478.89	96.615	3023	478.88	96.581	3024	478.91	96.583	3024	478.93	96.552	3025	478.92	96.584

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															