Manufacturer: SMA America

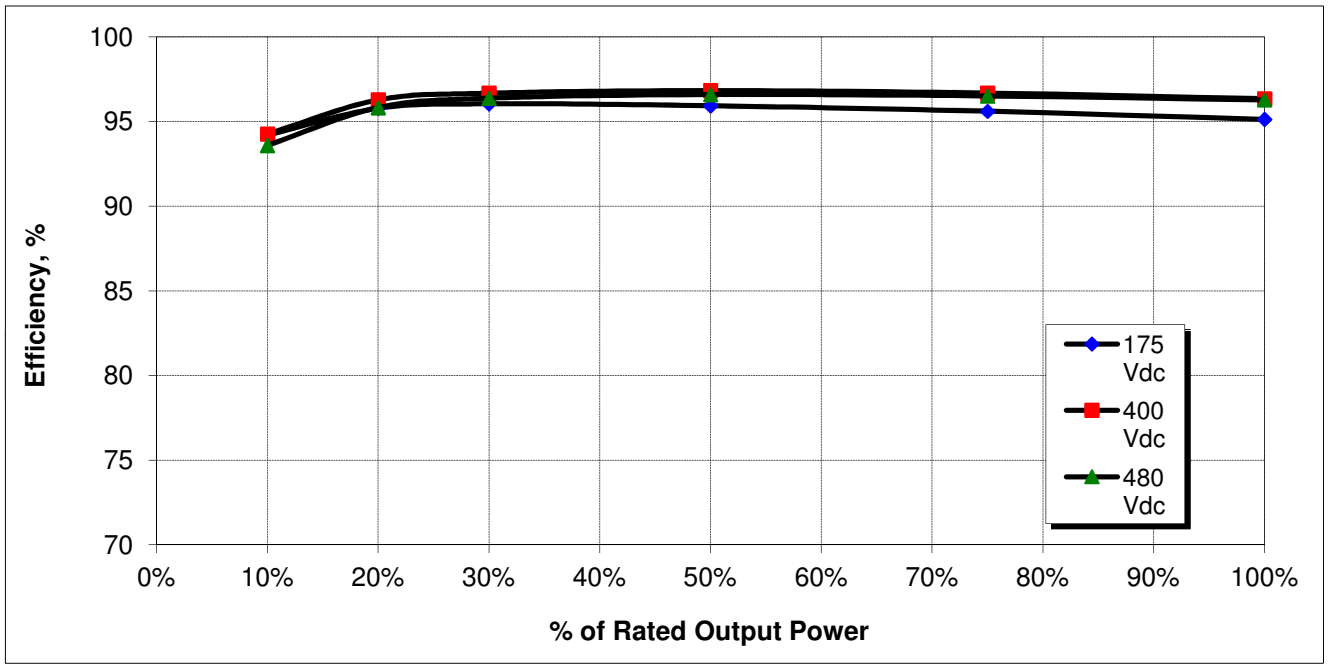
Model #: SB5000TL-US-22

Rated Maximum Continuous Output Power: 5 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)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	175	94.2	95.8	96.0	95.9	95.6	95.1	95.6
Vnom	400	94.3	96.3	96.7	96.8	96.7	96.3	96.6
Vmax	480	93.6	95.8	96.4	96.6	96.5	96.3	96.3

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	406	173.21	94.200	405	173.24	93.968	406	173.2	94.200	406	173.19	94.419	405	173.2	94.186
20%	Vmin	910	173.18	95.789	911	173.17	95.794	910	173.18	95.689	910	173.16	95.689	911	173.15	95.895
30%	Vmin	1367	173.14	95.997	1368	173.14	96.135	1364	173.14	95.921	1367	173.13	96.065	1367	173.16	96.065
50%	Vmin	2273	173.15	95.907	2274	173.15	95.909	2273	173.15	95.907	2273	173.14	95.948	2274	173.15	95.949
75%	Vmin	3258	173.16	95.599	3258	173.13	95.599	3259	173.15	95.628	3258	173.12	95.599	3257	173.13	95.569
100%	Vmin	4390	173.2	95.145	4388	173.19	95.102	4387	173.19	95.142	4384	173.17	95.118	4383	173.18	95.117
10%	Vnom	425	398.49	94.444	422	397.52	93.987	422	397.52	94.196	422	397.5	93.987	426	398.54	94.667
20%	Vnom	937	398.62	96.311	940	398.6	96.205	938	398.6	96.296	936	398.6	96.292	935	398.6	96.292
30%	Vnom	1402	398.6	96.690	1402	398.6	96.623	1402	398.61	96.690	1403	398.63	96.692	1403	398.64	96.692
50%	Vnom	2326	398.79	96.836	2326	398.78	96.836	2326	398.77	96.836	2327	398.78	96.837	2326	398.74	96.796
75%	Vnom	3338	398.84	96.698	3338	398.82	96.670	3336	398.83	96.696	3337	398.82	96.697	3338	398.84	96.670
100%	Vnom	4773	411.97	95.977	4642	398.99	96.445	4642	398.96	96.445	4643	398.96	96.446	4642	398.95	96.424
10%	Vmax	426	478.54	93.626	426	478.52	93.421	426	478.54	93.626	427	478.54	93.640	427	478.54	93.640
20%	Vmax	934	478.68	95.893	934	478.65	95.795	936	478.64	95.803	935	478.66	95.799	936	478.69	95.803
30%	Vmax	1398	478.68	96.414	1399	478.7	96.350	1400	478.68	96.352	1400	478.71	96.419	1399	478.69	96.350
50%	Vmax	2325	478.82	96.633	2324	478.8	96.552	2325	478.78	96.593	2325	478.8	96.593	2325	478.81	96.593
75%	Vmax	3336	478.92	96.528	3335	478.93	96.499	3335	478.93	96.499	3335	478.94	96.499	3337	478.91	96.529
100%	Vmax	4481	479.05	96.262	4482	479.03	96.263	4482	479.03	96.284	4483	479.03	96.284	4483	479	96.284

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															