Manufacturer: SMA America

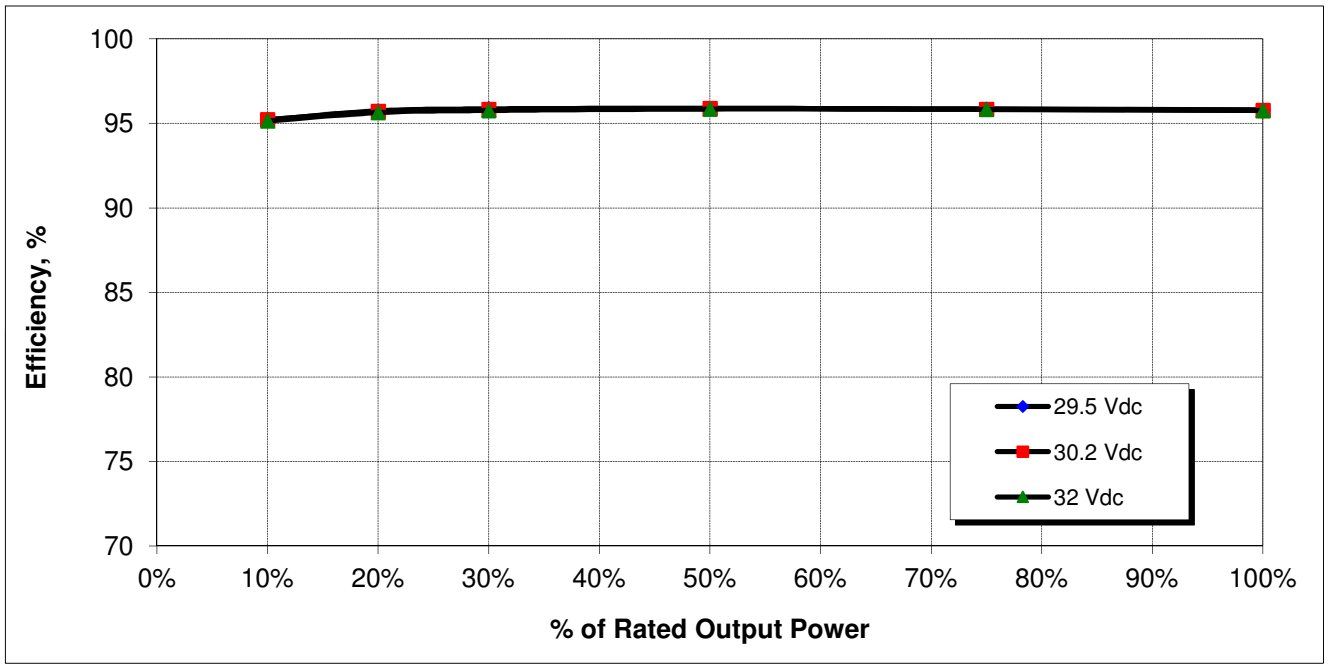
Model #: SB 240-US-10

Rated Maximum Continuous Output Power: 0.24 kW Night Tare Loss: 0.03 W

Vmin: 29.5 Vdc Vnom: 30.2 Vdc Vmax: 32 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.02	0.05	0.07	0.12	0.18	0.24	Wtd
Vmin	29.5	95.2	95.7	95.9	95.9	95.9	95.8	95.8
Vnom	30.2	95.2	95.7	95.8	95.9	95.8	95.8	95.8
Vmax	32	95.1	95.6	95.8	95.8	95.8	95.8	95.8

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	27.952	29.526	95.218	27.96	29.526	95.231	27.95	29.526	95.226	27.94	29.526	95.209	27.94	29.526	95.218
20%	Vmin	52.168	29.51	95.747	52.16	29.51	95.743	52.17	29.51	95.743	52.14	29.51	95.740	52.17	29.51	95.742
30%	Vmin	78.80	29.506	95.862	78.79	29.507	95.856	78.71	29.507	95.858	78.8	29.507	95.861	78.8	29.507	95.857
50%	Vmin	129.91	29.51	95.885	129.9	29.512	95.883	129.9	29.511	95.887	128.3	29.517	95.894	127.9	29.519	95.898
75%	Vmin	172.30	29.51	95.852	172.3	29.513	95.851	172.3	29.513	95.852	172.4	29.513	95.851	172.3	29.513	95.849
100%	Vmin	232.83	29.51	95.798	233.10	29.51	95.801	233.06	29.51	95.800	233.11	29.51	95.804	233.12	29.51	95.798
10%	Vnom	28.274	30.202	95.214	28.27	30.202	95.223	28.26	30.202	95.228	28.26	30.202	95.222	28.22	30.202	95.216
20%	Vnom	51.97	30.202	95.719	51.98	30.202	95.717	51.92	30.202	95.720	51.96	30.202	95.721	51.97	30.202	95.721
30%	Vnom	76.551	30.208	95.827	76.53	30.208	95.833	76.58	30.208	95.836	76.54	30.208	95.825	76.52	30.208	95.827
50%	Vnom	130.22	30.211	95.879	130.2	30.211	95.883	130.2	30.211	95.883	130.2	30.211	95.883	130.2	30.211	95.884
75%	Vnom	171.17	30.21	95.838	171.1	30.211	95.835	171.2	30.21	95.839	171.2	30.21	95.841	171.1	30.211	95.837
100%	Vnom	232.43	30.2	95.764	232.4	30.199	95.764	232.4	30.2	95.764	232.9	30.191	95.766	232.3	30.2	95.767
10%	Vmax	28.361	32.063	95.152	28.35	32.063	95.154	28.35	32.063	95.156	28.35	32.063	95.154	28.34	32.063	95.143
20%	Vmax	51.15	32.033	95.640	51.13	32.033	95.633	51.14	32.034	95.644	51.14	32.034	95.641	51.12	32.034	95.632
30%	Vmax	77.56	32.012	95.753	77.55	32.012	95.753	77.54	32.013	95.752	77.52	32.013	95.760	77.54	32.013	95.762
50%	Vmax	130.89	32.208	95.842	130.9	32.209	95.843	130.7	32.209	95.839	130.7	32.209	95.844	130.7	32.209	95.840
75%	Vmax	171.77	32.053	95.820	171.7	32.053	95.817	171.7	32.053	95.820	171.8	32.053	95.823	171.8	32.053	95.821
100%	Vmax	231.69	32.02	95.758	231.6	32.022	95.755	231.7	32.02	95.755	231.8	32.019	95.754	231.8	32.019	95.756

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	27.952	29.526	95.225	27.94	29.526	95.209	27.96	29.526	95.216	27.94	29.526	95.222	27.94	29.526	95.220
20%	Vmin	52.166	29.51	95.740	52.17	29.51	95.741	52.15	29.51	95.739	52.17	29.51	95.743	52.17	29.51	95.745
30%	Vmin	78.737	29.507	95.854	78.79	29.507	95.865	78.65	29.507	95.859	78.78	29.507	95.853	78.73	29.507	95.854
50%	Vmin	127.86	29.519	95.894	127.9	29.519	95.900	127.9	29.52	95.897	127.8	29.52	95.897	127.9	29.519	95.898
75%	Vmin	172.62	29.512	95.852	172.3	29.513	95.850	172.3	29.513	95.848	172.7	29.512	95.847	172.2	29.513	95.850
100%	Vmin	233.10	29.51	95.798	233.06	29.51	95.799	233.1	29.507	95.799	233.2	29.503	95.800	233.2	29.502	95.797
10%	Vnom	28.25	30.202	95.222	28.25	30.202	95.225	28.24	30.202	95.211	28.24	30.202	95.221	28.24	30.202	95.226
20%	Vnom	51.959	30.202	95.714	51.95	30.202	95.715	51.92	30.202	95.717	51.96	30.202	95.710	51.95	30.201	95.716
30%	Vnom	76.547	30.209	95.831	76.51	30.208	95.825	76.53	30.208	95.827	76.54	30.208	95.826	76.49	30.208	95.827
50%	Vnom	130.23	30.211	95.880	130.2	30.211	95.881	130.2	30.211	95.883	130.2	30.211	95.885	130.2	30.211	95.882
75%	Vnom	171.17	30.21	95.839	171.1	30.21	95.841	171.2	30.21	95.842	171.1	30.211	95.838	171.1	30.211	95.839
100%	Vnom	232.34	30.199	95.764	232.4	30.199	95.765	232.3	30.199	95.766	232.4	30.198	95.767	232.4	30.199	95.763
10%	Vmax	28.299	32.063	95.158	27.9	32.065	95.128	27.91	32.064	95.120	27.9	32.064	95.134	27.86	32.065	95.126
20%	Vmax	51.149	32.034	95.637	51.13	32.034	95.641	51.12	32.034	95.626	51.1	32.034	95.633	51.12	32.034	95.635
30%	Vmax	77.512	32.013	95.758	77.55	32.013	95.758	77.53	32.013	95.758	77.47	32.013	95.750	77.51	32.013	95.762
50%	Vmax	130.59	32.21	95.840	130.6	32.21	95.837	130.6	32.21	95.838	130.7	32.21	95.838	130.7	32.21	95.834
75%	Vmax	171.77	32.053	95.822	171.8	32.053	95.821	171.8	32.053	95.821	171.8	32.053	95.821	171.8	32.053	95.823
100%	Vmax	231.81	32.019	95.753	231.8	32.019	95.754	231.8	32.018	95.752	231.9	32.018	95.751	231.9	32.017	95.753