Manufacturer: SMA America

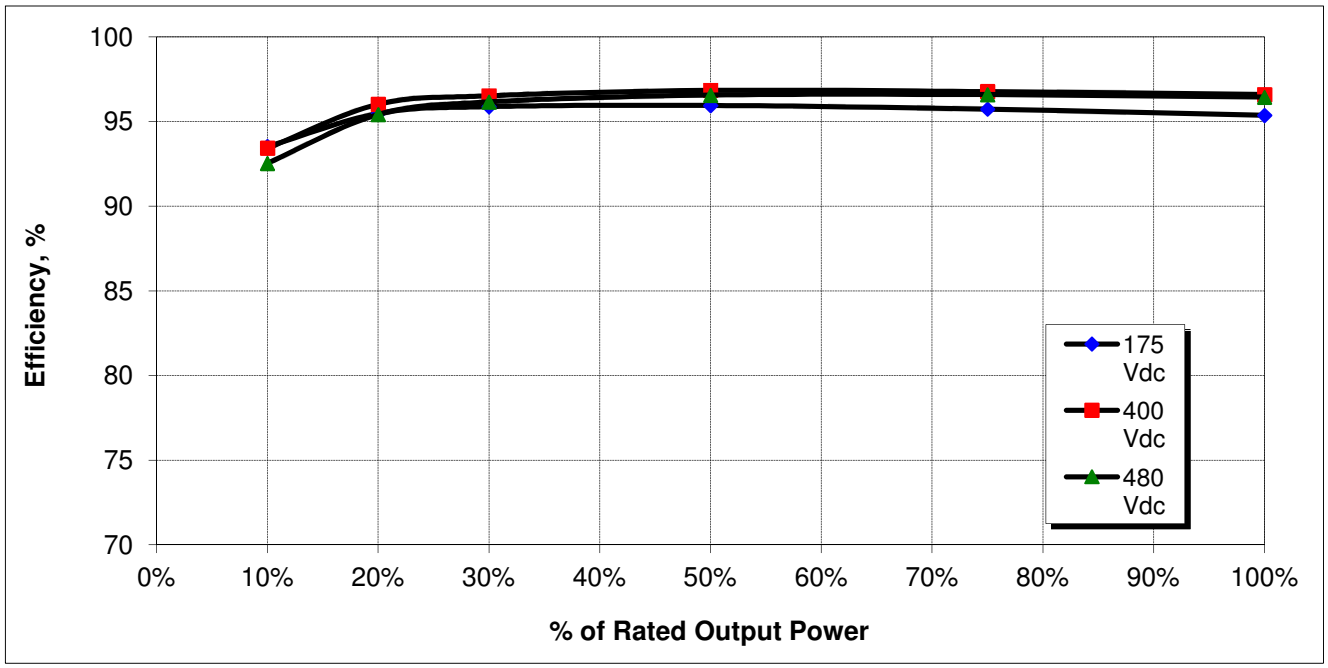
Model #: SB3800TL-US-22

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	93.5	95.5	95.9	95.9	95.7	95.4	95.7
Vnom	400	93.4	96.0	96.5	96.8	96.8	96.6	96.6
Vmax	480	92.5	95.4	96.2	96.6	96.6	96.4	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	341	172.51	93.681	341	172.5	93.681	340	172.52	93.151	341	172.53	93.681	340	172.53	93.407
20%	Vmin	766	172.52	95.630	764	172.47	95.500	763	172.5	95.375	764	172.5	95.500	763	172.48	95.375
30%	Vmin	1148	172.51	95.826	1148	172.5	95.826	1149	172.52	95.910	1149	172.52	95.910	1149	172.52	95.910
50%	Vmin	1915	172.51	95.990	1914	172.51	95.988	1913	172.51	95.938	1913	172.52	95.890	1913	172.5	95.938
75%	Vmin	2746	172.51	95.746	2744	172.51	95.743	2745	172.51	95.711	2744	172.51	95.743	2744	172.51	95.710
100%	Vmin	3750	173.01	95.371	3749	173	95.370	3748	173	95.320	3749	173.01	95.370	3750	173	95.396
10%	Vnom	360	398.56	93.995	359	398.55	93.734	360	398.56	93.750	357	397.56	92.727	356	397.56	92.950
20%	Vnom	787	398.61	95.971	786	398.62	95.971	786	398.62	95.976	787	398.62	96.098	788	398.62	96.098
30%	Vnom	1182	398.62	96.569	1183	398.66	96.493	1182	398.65	96.490	1182	398.65	96.569	1181	398.64	96.487
50%	Vnom	1964	398.8	96.844	1964	398.79	96.844	1963	398.78	96.843	1963	398.79	96.843	1963	398.79	96.843
75%	Vnom	2821	398.88	96.775	2821	398.89	96.775	2821	398.86	96.775	2821	398.88	96.775	2820	398.86	96.741
100%	Vnom	3921	398.94	96.608	3921	398.93	96.583	3920	398.91	96.607	3921	398.92	96.583	3921	398.93	96.583
10%	Vmax	359	478.59	92.765	355	478.62	92.448	358	478.6	92.506	356	478.59	92.468	356	478.59	92.468
20%	Vmax	786	478.73	95.388	785	478.73	95.383	787	478.72	95.510	785	478.73	95.383	784	478.72	95.377
30%	Vmax	1185	478.76	96.185	1184	478.72	96.182	1183	478.76	96.179	1184	478.75	96.104	1184	478.75	96.104
50%	Vmax	1964	478.83	96.559	1963	478.87	96.604	1962	478.84	96.555	1963	478.81	96.557	1963	478.85	96.509
75%	Vmax	2822	478.95	96.611	2822	478.92	96.611	2820	478.93	96.575	2819	478.92	96.574	2821	478.92	96.543
100%	Vmax	3789	479.05	96.437	3789	479.04	96.437	3789	479.02	96.437	3789	479	96.437	3789	478.99	96.437

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															