Manufacturer: SMA Solar Technology AG

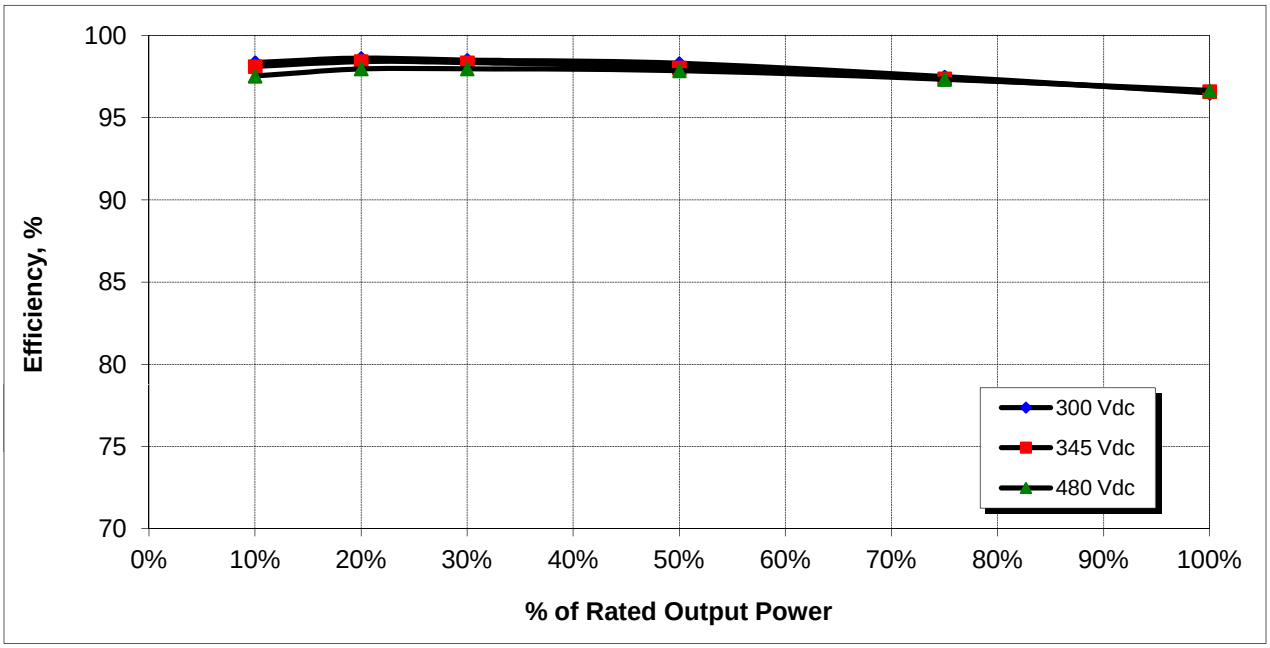
Model #: SB10000TL-US

Rated Maximum Continuous Output Power: 10,10 kW Night Tare Loss: 0,34 W

Vmin: 300 Vdc Vnom: 345 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1,01	2,02	3,03	5,05	7,58	10,10	Wtd
Vmin	300	98,3	98,6	98,5	98,3	97,5	96,5	97,8
Vnom	345	98,1	98,4	98,3	98,0	97,4	96,6	97,7
Vmax	480	97,5	98,0	98,0	97,9	97,3	96,7	97,5

CEC Efficiency = 97.5%



Inverter Efficiency Data

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (kW)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	1185	303,7	98,346	1185	303,7	98,356	1185	303,7	98,357	1185	303,7	98,338	1185	303,7	98,317
20%	Vmin	2192	303,6	98,587	2187	303,6	98,605	2181	303,6	98,612	2180	303,6	98,613	2180	303,6	98,603
30%	Vmin	3011	304,0	98,480	3009	303,8	98,480	3007	303,6	98,494	3007	303,6	98,497	3007	303,6	98,487
50%	Vmin	4524	304,4	98,285	4525	304,0	98,283	4524	304,1	98,287	4524	304,1	98,299	4524	304,1	98,301
75%	Vmin	7019	304,4	97,470	7021	304,4	97,474	7021	304,4	97,480	7020	304,4	97,478	7021	304,4	97,479
100%	Vmin	9513	308,0	96,491	9514	308,0	96,486	9515	308,0	96,488	9515	308,0	96,495	9514	308,0	96,494
10%	Vnom	1190	345,7	98,152	1189	345,7	98,122	1189	345,7	98,086	1189	345,7	98,094	1190	345,7	98,102
20%	Vnom	2196	345,7	98,426	2196	345,7	98,416	2196	345,7	98,413	2196	345,7	98,399	2196	345,7	98,400
30%	Vnom	3011	345,5	98,342	3012	345,5	98,352	3012	345,5	98,356	3012	345,5	98,351	3012	345,5	98,342
50%	Vnom	4506	346,5	98,034	4507	346,5	98,026	4507	346,5	98,026	4507	346,5	98,034	4507	346,5	98,036
75%	Vnom	7004	345,9	97,350	7009	345,5	97,357	7014	345,2	97,367	7014	345,2	97,370	7012	345,2	97,373
100%	Vnom	9509	345,9	96,577	9511	345,9	96,574	9510	345,9	96,571	9506	345,9	96,575	9506	345,9	96,576
10%	Vmax	1190	475,7	97,513	1187	475,7	97,532	1184	475,7	97,525	1184	475,7	97,491	1184	475,7	97,530
20%	Vmax	2179	475,7	97,821	2179	475,7	97,909	2179	475,7	97,943	2179	475,7	97,973	2179	475,7	97,991
30%	Vmax	3011	476,6	97,962	3011	476,6	97,960	3011	476,6	97,967	3011	476,6	97,979	3011	476,6	97,959
50%	Vmax	4523	476,5	97,855	4523	476,5	97,847	4523	476,5	97,849	4523	476,5	97,859	4523	476,5	97,864
75%	Vmax	7008	476,3	97,319	7008	476,3	97,323	7007	476,3	97,327	7009	476,3	97,331	7010	476,3	97,334
100%	Vmax	9523	474,0	96,651	9522	474,0	96,652	9522	474,0	96,654	9522	474,0	96,657	9522	474,0	96,654

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	1185	303,7	98,338	1185	303,7	98,346	1185	303,7	98,335	1185	303,7	98,354	1185	303,7	98,364
20%	Vmin	2180	303,6	98,605	2180	303,6	98,618	2180	303,6	98,625	2180	303,6	98,617	2180	303,6	98,606
30%	Vmin	3007	303,6	98,493	3007	303,6	98,498	3007	303,6	98,498	3007	303,6	98,497	3007	303,6	98,488
50%	Vmin	4524	304,0	98,305	4524	304,1	98,309	4524	304,1	98,310	4524	304,1	98,299	4524	304,1	98,288
75%	Vmin	7020	304,4	97,487	7020	304,4	97,490	7021	304,4	97,483	7022	304,4	97,480	7022	304,4	97,481
100%	Vmin	9510	308,0	96,492	9508	308,0	96,494	9510	308,0	96,493	9508	308,0	96,493	9505	308,0	96,494
10%	Vnom	1189	345,7	98,093	1189	345,7	98,091	1189	345,7	98,118	1189	345,7	98,142	1189	345,7	98,124
20%	Vnom	2196	345,7	98,415	2196	345,6	98,403	2196	345,6	98,390	2196	345,7	98,405	2196	345,7	98,407
30%	Vnom	3012	345,5	98,346	3012	345,5	98,348	3012	345,5	98,339	3012	345,5	98,342	3012	345,6	98,351
50%	Vnom	4507	346,5	98,032	4507	346,5	98,033	4506	346,5	98,032	4506	346,5	98,030	4506	346,5	98,036
75%	Vnom	7012	345,2	97,371	7013	345,2	97,370	7013	345,2	97,372	7013	345,2	97,370	7013	345,2	97,369
100%	Vnom	9508	345,9	96,575	9511	345,9	96,579	9511	345,9	96,580	9509	345,9	96,579	9509	345,9	96,581
10%	Vmax	1184	475,7	97,574	1184	475,7	97,547	1184	475,7	97,519	1184	475,7	97,519	1184	475,7	97,516
20%	Vmax	2179	475,7	97,998	2179	475,7	97,989	2179	475,7	98,004	2179	475,7	98,004	2179	475,7	97,994
30%	Vmax	3011	476,6	97,955	3011	476,6	97,972	3011	476,6	97,970	3011	476,6	97,967	3011	476,6	97,977
50%	Vmax	4523	476,5	97,858	4523	476,5	97,860	4523	476,5	97,868	4523	476,5	97,869	4523	476,5	97,863
75%	Vmax	7009	476,3	97,334	7009	476,3	97,336	7009	476,3	97,333	7008	476,3	97,327	7008	476,3	97,330
100%	Vmax	9522	474,0	96,650	9521	474,0	96,653	9522	474,0	96,650	9522	474,0	96,647	9522	474,0	96,649