Manufacturer: Beijing Kinglong New Energy Technology Co., Ltd.

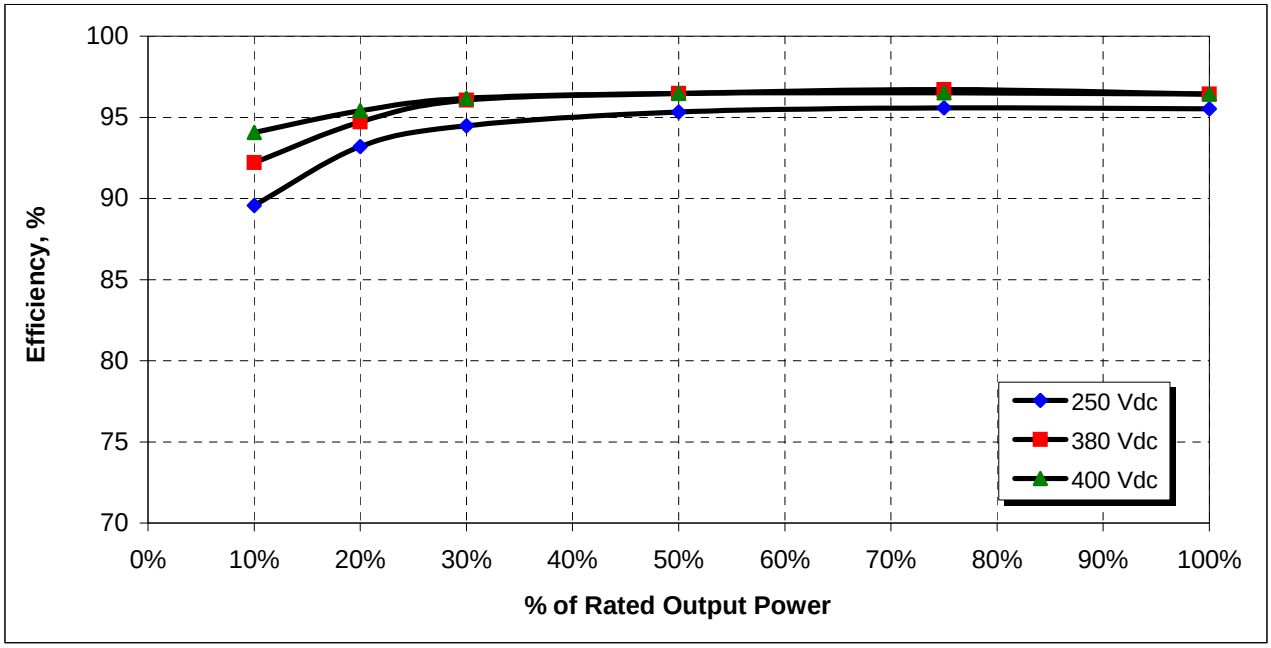
Model #: Sunteams 2000 (240 Vac)

Rated Maximum Continuous Output Power: 2.00 kW Night Tare Loss: 0.17 W

Vmin: 250 Vdc Vnom: 380 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.20	0.40	0.60	1.00	1.50	2.00	Wtd
Vmin	250	89.6	93.2	94.5	95.3	95.6	95.5	95.0
Vnom	380	92.2	94.7	96.0	96.5	96.7	96.4	96.3
Vmax	400	94.1	95.4	96.2	96.5	96.5	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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.189	254.39	89.513	0.189	249.08	89.620	0.188	250.6	89.121	0.187	264.26	89.876	0.186	267.94	89.718
20%	Vmin	0.399	254.57	93.240	0.398	252.51	93.189	0.398	260.38	93.261	0.398	256.33	93.119	0.398	259.39	93.215
30%	Vmin	0.609	260.61	94.469	0.610	255.35	94.556	0.608	255.5	94.372	0.609	257.71	94.449	0.610	257.12	94.525
50%	Vmin	0.998	258.42	95.337	0.999	256.99	95.293	0.999	256.05	95.317	0.998	256.85	95.395	0.999	256.05	95.300
75%	Vmin	1.501	253.18	95.542	1.501	255.6	95.597	1.502	255.9	95.578	1.500	255.28	95.554	1.501	257.37	95.617
100%	Vmin	1.984	250.37	95.548	1.985	254.44	95.579	1.976	251.68	95.161	1.986	253.78	95.591	1.988	252.61	95.752
10%	Vnom	0.194	379.77	92.569	0.194	380.15	92.810	0.195	379.91	92.891	0.193	379.11	91.962	0.190	381.42	90.847
20%	Vnom	0.403	390.11	94.278	0.406	391.5	94.922	0.405	389	94.516	0.405	391.96	94.760	0.406	391.64	95.142
30%	Vnom	0.607	384.16	95.950	0.606	382.73	95.783	0.607	377.36	96.113	0.606	382.92	95.809	0.611	383.39	96.576
50%	Vnom	1.003	386.87	96.541	1.001	384.89	96.301	1.006	386.3	96.744	1.001	384.55	96.333	1.003	384.41	96.392
75%	Vnom	1.508	384.78	96.620	1.508	382.26	96.676	1.509	384.21	96.681	1.510	384.25	96.729	1.511	385.31	96.778
100%	Vnom	2.008	390.77	96.457	2.008	386.12	96.415	2.010	384.01	96.421	2.009	384.14	96.405	2.009	388.44	96.460
10%	Vmax	0.189	401.52	95.919	0.186	412	94.630	0.183	401.6	93.005	0.183	395.98	92.756	0.185	409.53	93.966
20%	Vmax	0.408	397.52	95.231	0.408	402.96	95.392	0.408	404.5	95.337	0.409	399.43	95.714	0.408	392.92	95.341
30%	Vmax	0.609	398.17	96.262	0.611	399.47	96.588	0.609	398.24	96.340	0.609	396.85	96.235	0.604	395.18	95.459
50%	Vmax	1.005	400.5	96.621	1.002	399.09	96.315	1.007	400.29	96.908	1.002	399.68	96.382	0.999	398.72	96.099
75%	Vmax	1.510	398.57	96.646	1.507	400.92	96.476	1.508	400.84	96.670	1.506	399.23	96.401	1.505	399.42	96.382
100%	Vmax	2.007	406.46	96.465	2.006	403.22	96.405	2.010	398.41	96.393	2.011	398.95	96.412	2.011	402.07	96.463

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(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															