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

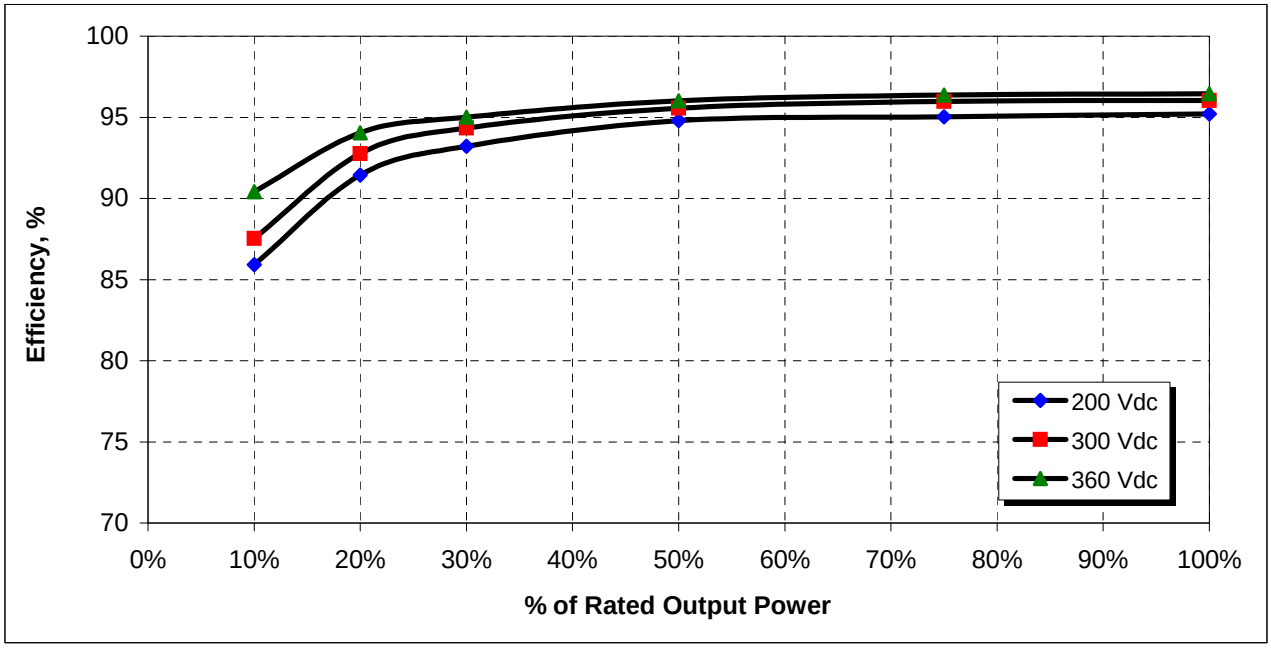
Model #: Sunteams 1500 (240 Vac)

Rated Maximum Continuous Output Power: 1.50 kW Night Tare Loss: 0.13 W

Vmin: 200 Vdc Vnom: 300 Vdc Vmax: 360 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.15	0.30	0.45	0.75	1.13	1.50	Wtd
Vmin	200	85.9	91.4	93.2	94.8	95.0	95.2	94.2
Vnom	300	87.5	92.8	94.3	95.6	96.0	96.0	95.2
Vmax	360	90.4	94.0	95.0	96.0	96.4	96.4	95.8

CEC Efficiency = 95.0%



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	0.13398	215.99	86.086	0.1364	207.29	85.662	0.1363	203.68	85.519	0.1379	210.64	86.329	0.137	209.46	85.984
20%	Vmin	0.3005	203.91	91.345	0.3013	204.25	91.583	0.2997	204.68	91.367	0.3004	206.33	91.447	0.3007	204.74	91.438
30%	Vmin	0.44333	203.73	93.181	0.4426	198.93	93.046	0.4437	203.36	93.278	0.4439	203.21	93.307	0.4434	201.94	93.300
50%	Vmin	0.74112	200.72	94.802	0.7396	202.99	94.734	0.7414	202.2	94.800	0.7407	203.89	94.790	0.7413	203.38	94.801
75%	Vmin	1.12188	201.17	95.010	1.123	201.49	95.007	1.1222	202.84	95.005	1.1223	201.13	95.048	1.1227	203.66	95.050
100%	Vmin	1.49627	199.63	95.352	1.4947	201.81	95.153	1.4928	201.38	95.056	1.491	203.68	95.418	1.4937	201.46	95.034
10%	Vnom	0.13918	300.64	87.332	0.1399	302.62	87.533	0.1403	312.46	87.704	0.14	304.18	87.528	0.1395	311.5	87.601
20%	Vnom	0.30615	305.53	92.678	0.3063	307.25	92.701	0.306	312.71	92.737	0.3071	312.04	92.963	0.3058	303.27	92.718
30%	Vnom	0.44714	298.25	94.312	0.4494	304.42	94.374	0.4482	312.3	94.411	0.4493	306.96	94.352	0.4486	306.46	94.290
50%	Vnom	0.7504	309.07	95.584	0.7494	305.18	95.550	0.7502	308.43	95.580	0.751	305.89	95.557	0.7495	307.65	95.532
75%	Vnom	1.11755	306.7	95.981	1.1185	303.76	96.008	1.1177	303.16	95.971	1.1167	305.07	95.989	1.1169	303.2	95.922
100%	Vnom	1.49678	307.45	96.066	1.4972	305.92	95.985	1.4966	306.17	96.018	1.4984	305.08	96.069	1.4973	306.74	96.003
10%	Vmax	0.14606	371.44	92.121	0.1425	365.34	89.791	0.1409	363.87	88.813	0.1454	374.07	91.599	0.1425	369.42	89.719
20%	Vmax	0.31054	358.34	93.954	0.3103	364.48	93.887	0.3135	367.72	94.855	0.309	351.05	93.541	0.3104	363.11	93.957
30%	Vmax	0.45189	365.11	95.052	0.4525	357.57	94.918	0.4534	357.9	95.072	0.4536	358.11	95.052	0.4525	356.7	94.920
50%	Vmax	0.75458	356.6	95.985	0.7545	359.38	95.980	0.7546	356.41	96.019	0.7543	360.41	95.987	0.7554	359.18	96.099
75%	Vmax	1.12325	360.33	96.341	1.1235	360.37	96.334	1.1242	359.02	96.415	1.1241	361.19	96.397	1.1237	357.78	96.350
100%	Vmax	1.50805	359.19	96.452	1.5054	360.3	96.335	1.5073	359.65	96.422	1.5059	355.8	96.368	1.5064	366.56	96.653

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															