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

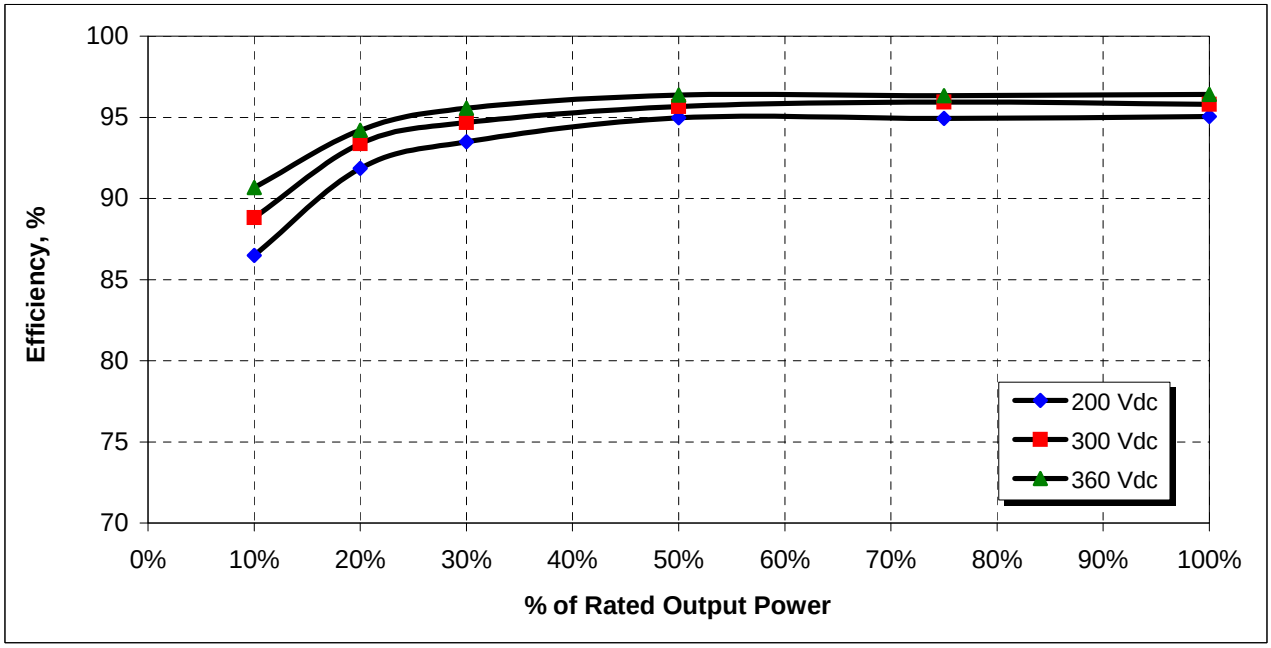
Model #: Sunteams 1500 (208 Vac)

Rated Maximum Continuous Output Power: 1.50 kW Night Tare Loss: 0.10 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	86.5	91.8	93.5	95.0	94.9	95.1	94.3
Vnom	300	88.8	93.4	94.7	95.7	95.9	95.8	95.3
Vmax	360	90.7	94.2	95.6	96.4	96.3	96.4	95.9

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	0.1379	209.4	86.346	0.1379	210.07	86.447	0.1373	212.89	86.945	0.1359	212.45	86.011	0.1373	210.86	86.659
20%	Vmin	0.3024	201.34	91.861	0.3015	205.96	91.693	0.3014	206.61	91.822	0.3019	204	91.879	0.3019	202.42	91.980
30%	Vmin	0.44484	202.47	93.478	0.4444	203.38	93.462	0.4445	202.09	93.480	0.4436	207.26	93.488	0.445	204.4	93.529
50%	Vmin	0.73156	202.71	94.999	0.7301	201.77	94.901	0.7311	200.81	95.036	0.7292	202.39	94.924	0.7307	202.52	94.986
75%	Vmin	1.1138	202.52	94.906	1.115	201.54	94.942	1.1156	203.82	94.969	1.1145	202.99	94.904	1.1149	202.09	94.977
100%	Vmin	1.48527	203.08	95.122	1.4857	202.37	95.051	1.4818	203.46	94.886	1.4857	201.26	95.086	1.486	204.13	95.116
10%	Vnom	0.14115	314.12	88.454	0.1418	315	89.310	0.1417	311.66	89.135	0.1413	298.93	88.574	0.141	311.78	88.636
20%	Vnom	0.30858	310.08	93.437	0.3088	307.52	93.430	0.3076	305.38	93.225	0.308	311.69	93.378	0.3077	313.78	93.405
30%	Vnom	0.45117	309.69	94.683	0.4508	307.33	94.801	0.4505	301.46	94.622	0.4509	302.97	94.701	0.4494	309.22	94.569
50%	Vnom	0.73298	305.79	95.681	0.7328	306.17	95.726	0.7319	307.09	95.628	0.7319	308.05	95.653	0.7325	306.43	95.655
75%	Vnom	1.11772	304.83	95.924	1.118	304.42	95.934	1.1181	306.32	95.940	1.1181	305.39	95.978	1.1166	305.65	95.947
100%	Vnom	1.49807	299.74	95.814	1.4962	299.74	95.797	1.4992	299.73	95.806	1.4992	299.74	95.795	1.5014	292.5	95.755
10%	Vmax	0.13868	385.35	89.638	0.1409	373.44	88.817	0.1459	372.06	91.807	0.1457	359.78	91.660	0.1454	357.86	91.414
20%	Vmax	0.31233	352.44	94.439	0.3113	351.28	94.051	0.3106	350.06	94.203	0.3096	354.18	93.596	0.3134	353.47	94.746
30%	Vmax	0.45489	355.52	95.385	0.4574	354.31	95.866	0.456	354.96	95.544	0.4548	354.13	95.436	0.4564	358.02	95.590
50%	Vmax	0.72821	356.65	96.525	0.7272	357.76	96.405	0.7274	356.52	96.402	0.7258	359.53	96.192	0.7266	358.16	96.313
75%	Vmax	1.12533	359.77	96.388	1.1242	360.78	96.316	1.1227	357.63	96.214	1.1241	357.89	96.291	1.1251	357.23	96.401
100%	Vmax	1.44742	360.34	96.231	1.4489	358.82	96.372	1.4499	358.78	96.448	1.4529	359.03	96.598	1.4492	357.62	96.415

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															