Manufacturer: Altenergy Power System, Inc.

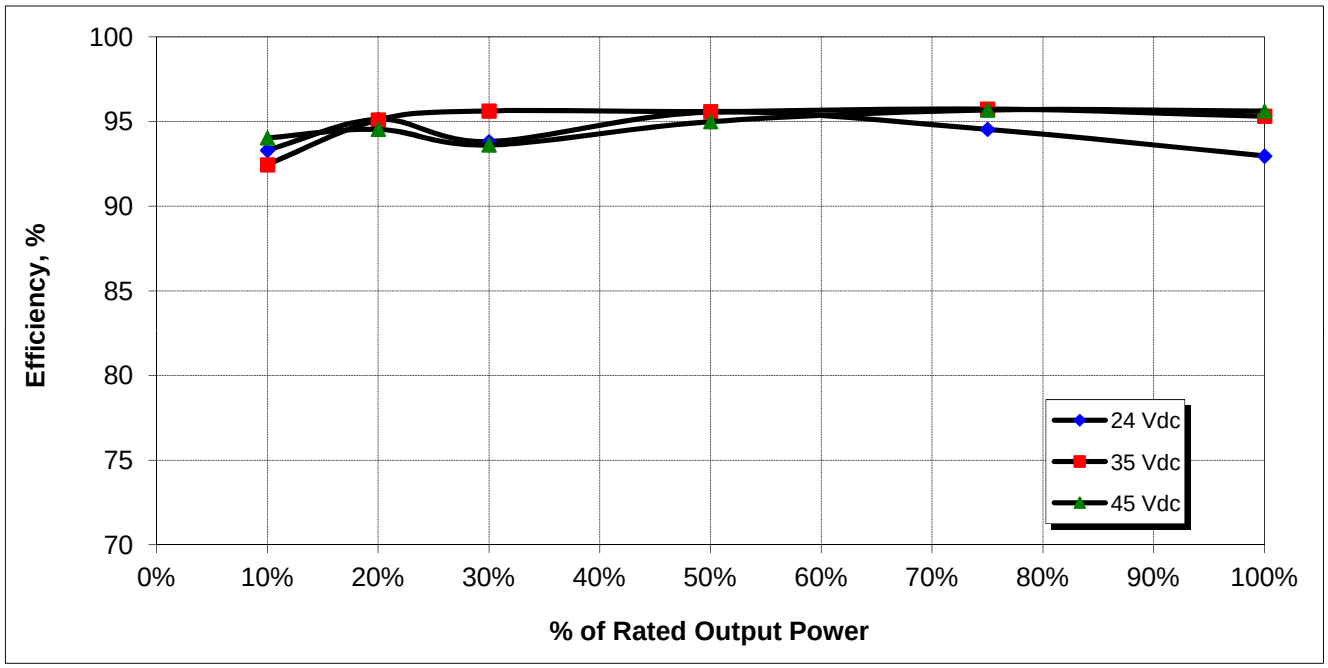
Model #: YC500I at 240Vac

Rated Maximum Continuous Output Power: 0.50 kW Night Tare Loss: 0.15 W

Vmin: 24 Vdc Vnom: 35 Vdc Vmax: 45 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.05	0.10	0.15	0.25	0.38	0.50	Wtd
Vmin	24	93.3	95.1	93.8	95.6	94.5	93.0	94.6
Vnom	35	92.5	95.1	95.6	95.6	95.7	95.3	95.5
Vmax	45	94.0	94.5	93.6	95.0	95.7	95.6	95.2

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	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)
10%	Vmin	46.522	24.26	24.242	93.330	46.329	24.187	24.146	93.220	46.41	24.273	24.111	93.316	46.539	24.271	24.239	93.210	46.18	24.09	24.151	93.292
20%	Vmin	107.84	24.41	24.354	95.132	107.8327	24.411	24.353	95.131	107.8	24.412	24.355	95.133	107.84	24.413	24.355	95.134	107.8	24.413	24.356	95.138
30%	Vmin	142.28	24.395	24.329	93.815	142.294	24.397	24.329	93.829	142.3	24.397	24.329	93.820	142.27	24.394	24.327	93.814	142.3	24.4	24.333	93.820
50%	Vmin	246.28	24.244	24.212	95.556	246.2697	24.244	24.212	95.559	246.3	24.244	24.212	95.556	246.27	24.243	24.211	95.556	246.3	24.242	24.212	95.558
75%	Vmin	379.95	24.203	24.22	94.539	379.9517	24.206	24.223	94.541	380	24.209	24.226	94.540	379.94	24.211	24.225	94.541	379.9	24.211	24.224	94.542
100%	Vmin	502.49	24.266	24.313	92.988	502.3717	24.27	24.311	92.977	502.4	24.268	24.31	92.969	502.41	24.268	24.309	92.959	502.4	24.271	24.31	92.955
10%	Vnom	46.555	35.087	34.866	93.227	45.73133	35.075	34.724	91.538	45.51	35.315	35.179	92.416	46.372	35.101	35.116	93.056	46.22	35.111	34.914	92.676
20%	Vnom	101.55	34.814	34.734	95.101	101.559	34.816	34.737	95.097	101.6	34.821	34.741	95.133	101.57	34.819	34.741	95.098	101.6	34.822	34.744	95.088
30%	Vnom	150.45	34.977	34.926	95.602	150.5707	35.013	34.981	95.711	150.4	34.977	34.925	95.602	150.46	34.976	34.925	95.607	150.5	34.977	34.925	95.614
50%	Vnom	251.26	35.273	35.152	95.595	251.4613	35.271	35.152	95.594	251.3	35.268	35.15	95.592	251.26	35.272	35.15	95.588	251.3	35.27	35.15	95.600
75%	Vnom	375.47	35.065	34.992	95.743	375.4613	35.067	34.995	95.743	375.5	35.068	34.995	95.745	375.47	35.067	34.995	95.744	375.5	35.066	34.994	95.746
100%	Vnom	503.68	35.574	35.507	95.318	503.6297	35.58	35.514	95.320	503.6	35.583	35.514	95.318	503.57	35.588	35.52	95.316	503.6	35.588	35.518	95.320
10%	Vmax	45.899	44.335	44.478	94.082	45.532	44.34	44.747	94.120	45.51	44.4	44.703	94.007	45.514	44.407	44.63	93.815	45.64	44.372	44.634	94.118
20%	Vmax	104.35	44.551	44.233	94.608	104.282	44.447	44.475	94.577	104.3	44.54	44.461	94.500	104.81	44.816	44.6	94.363	104	44.432	44.477	94.547
30%	Vmax	161.37	44.552	44.427	93.607	161.2987	44.453	44.496	93.598	161.3	44.448	44.498	93.602	161.23	44.478	44.314	93.568	161.5	44.566	44.268	93.636
50%	Vmax	247.45	44.703	44.686	94.986	247.433	44.704	44.685	94.983	247.5	44.7	44.683	94.995	247.48	44.687	44.673	94.995	247.5	44.688	44.674	94.998
75%	Vmax	369.66	44.412	44.56	95.673	369.646	44.396	44.55	95.672	369.7	44.388	44.546	95.691	369.69	44.382	44.543	95.683	269.7	44.373	44.537	95.686
100%	Vmax	503.7	44.818	44.817	95.616	503.7193	44.811	44.813	95.621	503.7	44.816	44.816	95.612	503.67	44.82	44.814	95.613	503.6	44.806	44.809	95.606

Specified		Sample #6				Sample #7				Sample #8				Sample #9				Sample #10			
Output Power	Input Voltage	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(%)
10%	Vmin	46.394	24.291	24.207	93.406	46.298	24.257	24.104	93.371												
20%	Vmin	107.83	24.413	24.356	95.133	107.834	24.413	24.356	95.138												
30%	Vmin	142.27	24.396	24.332	93.806	142.2647	24.398	24.334	93.808												
50%	Vmin	246.27	24.241	24.211	95.557	246.2747	24.24	24.209	95.558												
75%	Vmin	379.94	24.214	24.229	94.542	379.908	24.215	24.227	94.540												
100%	Vmin	502.3	24.273	24.31	92.948	502.245	24.269	24.305	92.940												
10%	Vnom	45.058	35.341	35.057	91.352	46.15	35.166	34.928	92.894												
20%	Vnom	101.56	34.823	34.744	95.091	101.5553	34.789	34.72	95.101												
30%	Vnom	150.54	35.009	34.979	95.681	150.4507	34.976	34.924	95.607												
50%	Vnom	251.27	35.266	35.147	95.595	251.2773	35.267	35.145	95.597												
75%	Vnom	375.47	35.066	34.993	95.746	375.4787	35.065	34.992	95.750												
100%	Vnom	503.58	35.586	35.513	95.318	503.546	35.59	35.52	95.318												
10%	Vmax	45.031	44.665	44.807	93.928	45.638	44.32	44.719	94.185												
20%	Vmax	104.22	44.554	44.479	94.700	104.22	44.71	44.723	94.485												
30%	Vmax	161.91	44.563	44.356	93.654	161.9607	44.643	44.413	93.633												
50%	Vmax	247.47	44.68	44.668	94.998	247	44.678	44.666	94.992												
75%	Vmax	369.7	44.37	44.534	95.687	369.7363	44.366	44.531	95.694												
100%	Vmax	503.67	44.811	44.813	95.612	503.698	44.805	44.812	95.620												