

Manufacturer: Altenergy Power System, Inc.

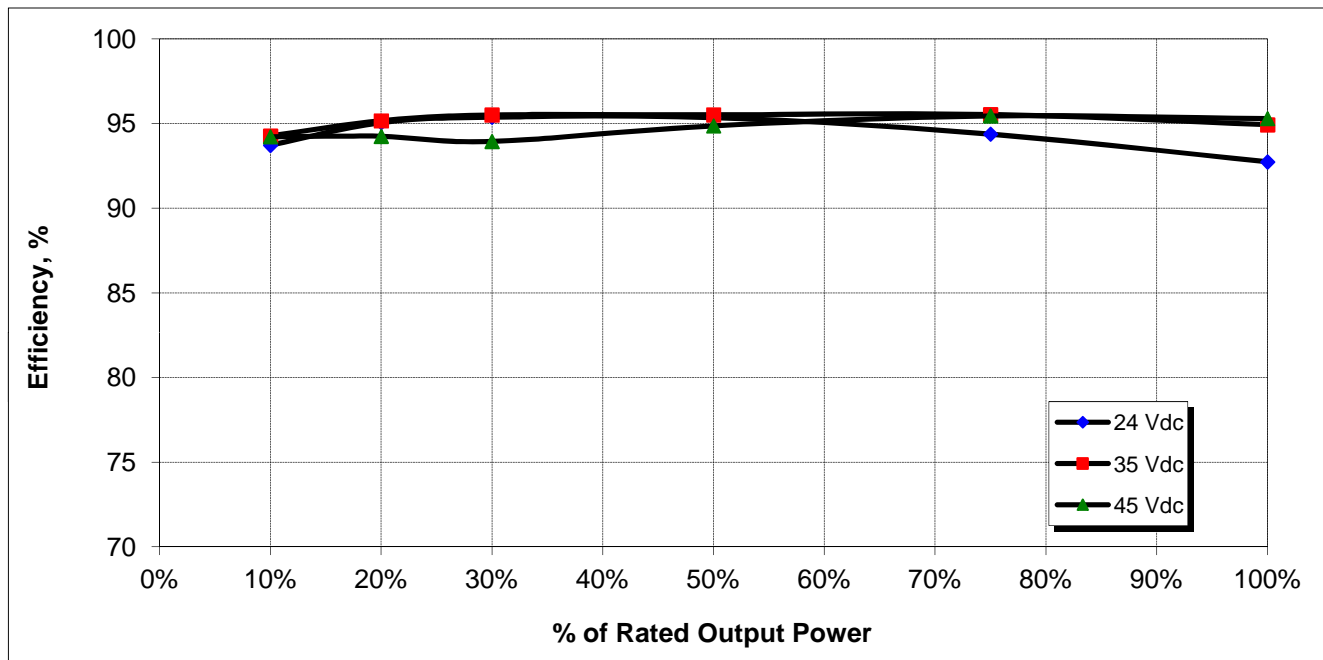
Model #: YC500A at 208Vac

Rated Maximum Continuous Output Power: 0.50 kW Night Tare Loss: 0.12 W

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

Input Voltage (Vdc)		Power Level (%; kW)						Wtd
		10%	20%	30%	50%	75%	100%	
Vmin	24	93.7	95.1	95.4	95.4	94.4	92.7	94.6
Vnom	35	94.3	95.2	95.5	95.5	95.5	94.9	95.4
Vmax	45	94.2	94.2	93.9	94.9	95.5	95.3	95.0

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	48.182	24.145	24.308	93.711	48.2	24.16237	24.331	93.707	48.071	24.146	24.182	93.659	48.2	24.3	24.193	93.728	48.31	24.266	24.211	93.727
20%	Vmin	107.21	24.323	24.135	95.060	107.2	24.3231	24.135	95.056	107.2	24.324	24.135	95.048	107.2	24.324	24.136	95.055	107.2	24.325	24.137	95.053
30%	Vmin	160.93	24.272	24.129	95.381	160.9	24.2722	24.129	95.376	160.91	24.271	24.129	95.376	160.9	24.271	24.13	95.374	160.9	24.273	24.13	95.378
50%	Vmin	268.19	24.243	24.231	95.359	268.2	24.243	24.231	95.362	268.18	24.243	24.232	95.360	268.2	24.242	24.231	95.361	268.2	24.243	24.231	95.361
75%	Vmin	372.92	24.278	24.266	94.378	372.9	24.27773	24.266	94.380	372.95	24.27	24.266	94.378	373	24.266	24.265	94.378	373	24.267	24.265	94.378
100%	Vmin	484.83	24.278	24.301	92.745	484.8	24.28127	24.3	92.740	484.79	24.281	24.3	92.737	484.8	24.279	24.298	92.736	484.7	24.283	24.299	92.730
10%	Vnom	43.062	35.453	35.487	94.319	43.02	35.507	35.415	94.305	43.071	35.511	35.333	94.124	43.15	35.449	35.384	94.220	43.16	35.432	35.388	94.228
20%	Vnom	98.951	34.466	34.495	95.173	98.95	34.4638	34.494	95.176	98.953	34.468	34.497	95.048	98.95	34.466	34.495	95.183	98.94	34.466	34.495	95.176
30%	Vnom	149.32	34.949	34.906	95.503	149.3	34.9512	34.907	95.497	149.32	34.95	34.906	95.502	149.3	34.951	34.907	95.506	149.3	34.95	34.906	95.502
50%	Vnom	248.5	35.08	35.092	95.514	248.5	35.0771	35.088	95.513	248.5	35.076	35.087	95.513	248.5	35.074	35.085	95.514	248.5	35.072	35.083	95.512
75%	Vnom	372.28	35.018	35.29	95.533	372.3	35.0157	35.289	95.531	372.28	35.015	35.29	95.529	372.3	35.013	35.29	95.535	372.3	35.011	35.288	95.533
100%	Vnom	501.72	35.361	35.497	94.928	501.7	35.3618	35.499	94.930	501.7	35.362	35.501	94.934	501.7	35.364	35.505	94.931	501.7	35.364	35.505	94.927
10%	Vmax	46.974	44.577	44.242	94.096	45.97	44.8648	44.726	93.738	46.318	44.735	44.755	94.314	46.26	44.969	44.616	94.267	46.39	44.817	44.355	94.011
20%	Vmax	103.52	44.283	44.455	94.137	103.7	44.5354	44.424	94.151	103.92	44.535	44.45	94.267	103.8	44.445	44.38	94.268	104.8	44.714	44.688	94.769
30%	Vmax	151.86	44.318	44.409	94.222	151.8	44.2567	44.359	94.204	151.97	44.303	44.485	94.164	152.1	44.417	44.411	94.060	152.2	44.386	44.401	93.999
50%	Vmax	249.67	44.25	44.392	94.853	249.8	44.2594	44.363	94.867	249.99	44.323	44.391	94.864	250	44.311	44.386	94.859	250	44.307	44.382	94.857
75%	Vmax	375.12	44.606	44.721	95.445	375.2	44.596	44.71	95.443	375.2	44.592	44.703	95.455	375.2	44.58	44.696	95.452	375.2	44.578	44.688	95.454
100%	Vmax	509.33	44.295	44.518	95.292	509.3	44.2927	44.516	95.294	509.35	44.295	44.517	95.292	509.4	44.297	44.517	95.295	509.4	44.295	44.516	95.293

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