Manufacturer: Altenergy Power System Inc

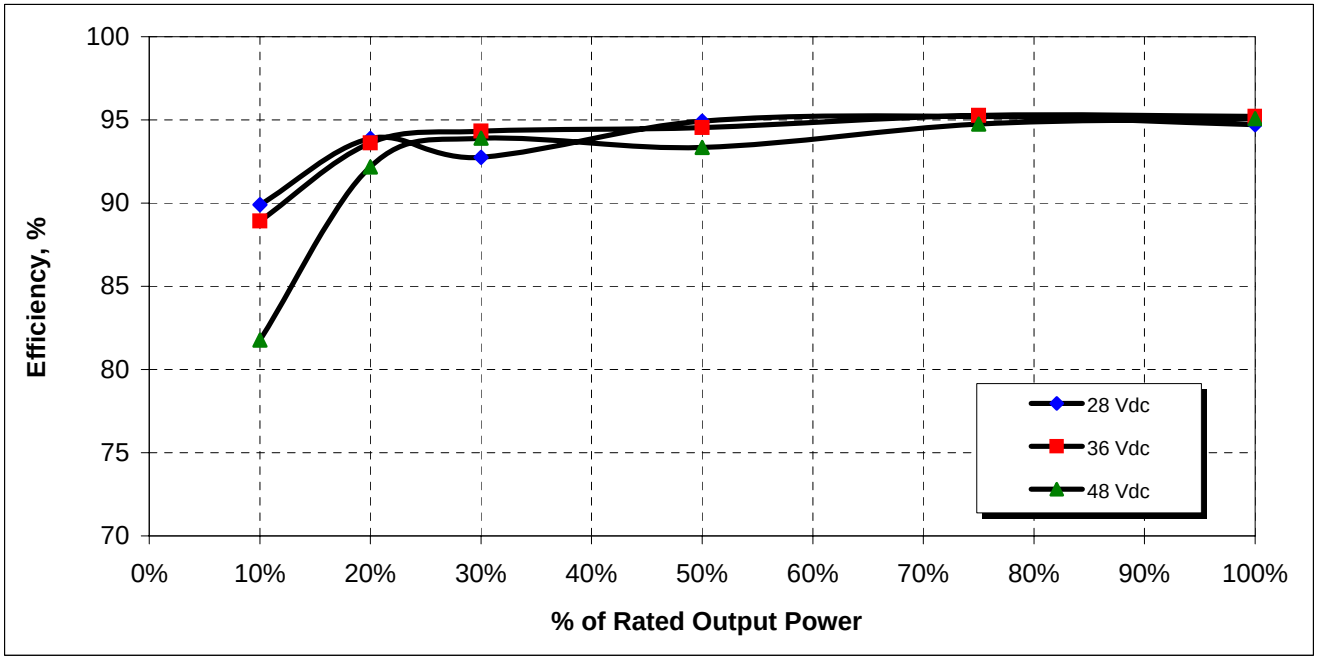
Model #: YC1000-3-480

Rated Maximum Continuous Output Power: 900.00 W Night Tare Loss: 0.88 W

Vmin: 28 Vdc Vnom: 36 Vdc Vmax: 48 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		90.00	180.00	270.00	450.00	675.00	900.00	Wtd
Vmin	28	89.9	93.9	92.7	94.9	95.2	94.7	94.6
Vnom	36	88.9	93.6	94.3	94.5	95.3	95.2	94.7
Vmax	48	81.8	92.2	93.9	93.3	94.8	95.1	93.7

CEC Efficiency = 94.5%



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	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)
10%	Vmin	80.03	28.35	28.33	28.33	28.31	89.86	80.08	28.38	28.36	28.35	28.36	89.92	80.12	28.35	28.39	28.38	28.37	89.96	80.09	28.33	28.39	28.38	28.37	89.96	80.11	28.34	28.38	28.35	28.38	89.94
20%	Vmin	188.27	28.36	28.38	28.37	28.36	93.88	188.30	28.34	28.37	28.36	28.37	93.89	188.33	28.36	28.40	28.39	28.38	93.93	188.34	28.34	28.38	28.37	28.36	93.92	188.29	28.37	28.38	28.36	28.35	93.87
30%	Vmin	268.80	28.44	28.46	28.45	28.44	92.74	268.72	28.41	28.47	28.44	28.44	92.68	268.86	28.43	28.44	28.43	28.42	92.76	268.80	28.42	28.46	28.45	28.44	92.74	268.83	28.40	28.44	28.43	28.42	92.76
50%	Vmin	433.79	28.38	28.42	28.42	28.40	94.92	433.89	28.40	28.42	28.41	28.39	94.92	434.00	28.40	28.41	28.40	28.39	94.96	433.95	28.39	28.41	28.40	28.40	94.94	433.93	28.39	28.41	28.41	28.40	94.93
75%	Vmin	663.60	28.30	28.33	28.32	28.31	95.23	663.58	28.29	28.33	28.32	28.32	95.23	663.55	28.32	28.32	28.31	28.31	95.22	663.58	28.31	28.33	28.32	28.32	95.22	663.56	28.31	28.34	28.32	28.32	95.21
100%	Vmin	857.22	28.47	28.50	28.48	28.48	94.71	856.74	28.47	28.49	28.48	28.47	94.70	856.79	28.46	28.49	28.48	28.48	94.71	856.51	28.48	28.50	28.49	28.49	94.65	857.08	28.46	28.50	28.50	28.49	94.73
10%	Vnom	88.39	36.31	36.39	36.36	36.37	88.92	88.44	36.33	36.32	36.31	36.29	88.99	88.39	36.31	36.36	36.36	36.33	88.97	88.33	36.38	36.32	36.30	36.28	88.90	88.36	36.38	36.38	36.39	36.35	88.89
20%	Vnom	186.46	36.49	36.54	36.50	36.52	93.63	186.47	36.55	36.54	36.49	36.55	93.61	186.41	36.47	36.53	36.50	36.53	93.62	186.42	36.54	36.58	36.56	36.54	93.61	186.53	36.53	36.56	36.53	36.52	93.64
30%	Vnom	268.85	36.37	36.43	36.43	36.38	94.36	268.82	36.41	36.44	36.40	36.39	94.36	268.75	36.40	36.42	36.42	36.38	94.32	268.88	36.41	36.45	36.43	36.42	94.35	268.74	36.41	36.41	36.40	36.38	94.31
50%	Vnom	443.78	36.39	36.42	36.41	36.39	94.53	443.88	36.39	36.45	36.43	36.40	94.54	443.93	36.42	36.45	36.43	36.41	94.54	443.79	36.41	36.44	36.42	36.41	94.52	443.90	36.41	36.44	36.42	36.41	94.54
75%	Vnom	661.41	36.35	36.37	36.34	36.33	95.26	661.35	36.34	36.35	36.33	36.32	95.27	661.29	36.35	36.36	36.35	36.32	95.25	661.42	36.33	36.35	36.35	36.32	95.26	661.38	36.33	36.36	36.36	36.33	95.27
100%	Vnom	888.01	36.27	36.26	36.25	36.26	95.21	887.78	36.28	36.28	36.27	36.27	95.18	887.86	36.28	36.28	36.26	36.26	95.19	887.87	36.26	36.28	36.27	36.26	95.20	887.80	36.27	36.27	36.28	36.26	95.20
10%	Vmax	78.26	47.35	47.57	47.54	47.51	81.55	78.60	47.35	47.32	47.28	47.47	82.07	78.46	47.44	47.30	47.23	47.33	81.84	78.05	47.18	47.36	47.35	47.52	81.44	78.50	47.33	47.44	47.40	47.40	81.68
20%	Vmax	176.33	47.44	47.49	47.49	47.44	92.09	176.52	47.45	47.50	47.50	47.45	92.18	176.51	47.44	47.42	47.42	47.42	92.23	176.43	47.46	47.45	47.46	47.44	92.19	176.30	47.49	47.49	47.46	47.48	92.09
30%	Vmax	270.14	47.60	47.62	47.61	47.58	93.93	270.08	47.61	47.65	47.63	47.62	93.89	270.06	47.63	47.65	47.64	47.62	93.89	270.12	47.63	47.63	47.63	47.61	93.92	270.14	47.60	47.63	47.60	47.60	93.92
50%	Vmax	429.43	47.58	47.59	47.59	47.57	93.34	429.60	47.57	47.60	47.59	47.58	93.37	429.52	47.58	47.62	47.60	47.59	93.34	429.42	47.60	47.62	47.60	47.59	93.32	429.64	47.57	47.61	47.60	47.58	93.37
75%	Vmax	641.92	47.89	47.92	47.91	47.89	94.77	641.83	47.90	47.91	47.89	47.87	94.75	641.71	47.90	47.92	47.92	47.89	94.74	641.92	47.89	47.91	47.90	47.89	94.78	641.77	47.88	47.93	47.92	47.90	94.75
100%	Vmax	915.83	47.74	47.74	47.73	47.73	95.07	915.77	47.72	47.73	47.73	47.72	95.07	915.98	47.72	47.75	47.76	47.73	95.09	915.78	47.72	47.74	47.74	47.71	95.07	915.81	47.77	47.75	47.74	47.72	95.06

Specified		Sample #6						Sample #7						Sample #8						Sample #9						Sample #10					
Output Power	Input Voltage	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency	Output Power	Input Voltage	Input Voltage	Input Voltage	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)	(W)	(Vdc)	(Vdc)	(Vdc)	(Vdc)	(%)
10%	Vmin	80.04	28.37	28.36	28.35	28.34	89.87	80.03	28.32	28.37	28.38	28.36	89.86																		
20%	Vmin	188.25	28.35	28.37	28.35	28.34	93.84	188.35	28.37	28.38	28.37	28.37	93.90																		
30%	Vmin	268.86	28.44	28.42	28.43	28.44	92.75	268.91	28.40	28.43	28.44	28.44	92.78																		
50%	Vmin	433.87	28.39	28.43	28.42	28.41	94.92	433.97	28.41	28.42	28.42	28.42	94.93																		
75%	Vmin	663.57	28.30	28.33	28.32	28.32	95.22	663.50	28.30	28.35	28.34	28.34	95.21																		
100%	Vmin	856.50	28.47	28.48	28.48	28.48	94.69	856.20	28.46	28.49	28.48	28.47	94.73																		
10%	Vnom	88.26	36.35	36.38	36.39	36.36	88.81	88.40	36.38	36.29	36.28	36.26	89.01																		
20%	Vnom	186.40	36.51	36.49	36.48	36.49	93.58	186.36	36.50	36.52	36.52	36.52	93.57																		
30%	Vnom	268.75	36.36	36.41	36.40	36.35	94.32	268.82	36.38	36.42	36.39	36.38	94.34																		
50%	Vnom	443.93	36.41	36.39	36.37	36.37	94.56	443.89	36.40	36.41	36.39	36.39	94.56																		
75%	Vnom	661.32	36.32	36.37	36.36	36.34	95.26	661.42	36.31	36.36	36.35	36.35	95.26																		
100%	Vnom	887.86	36.27	36.26	36.27	36.25	95.23	887.87	36.30	36.27	36.28	36.26	95.21																		
10%	Vmax	78.54	47.40	47.51	47.36	47.41	81.95	78.50	47.44	47.43	47.45	47.43	81.89																		
20%	Vmax	176.50	47.45	47.51	47.48	47.49	92.20	176.50	47.41	47.48	47.45	47.44	92.20																		
30%	Vmax	270.12	47.65	47.62	47.59	47.59	93.91	270.13	47.62	47.63	47.61	47.60	93.89																		
50%	Vmax	429.54	47.60	47.60	47.59	47.57	93.35	429.54	47.59	47.61	47.59	47.57	93.35																		
75%	Vmax	641.76	47.89	47.91	47.91	47.89	94.74	641.83	47.91	47.92	47.91	47.89	94.75																		
100%	Vmax	915.95	47.73	47.75	47.75	47.72	95.08	915.85	47.74	47.74	47.73	47.72	95.06																		