Manufacturer: Advanced Energy Industries, Inc.

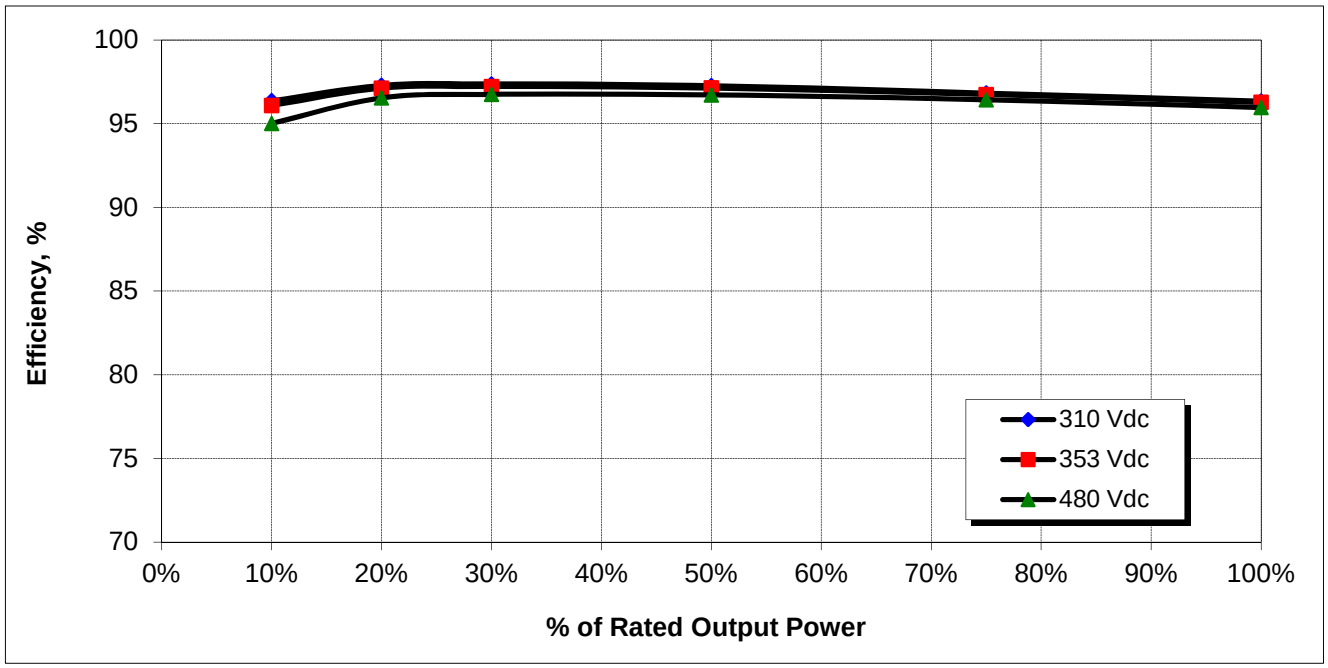
Model #: AE 500TX-600

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 69.04 W

Vmin: 310 Vdc Vnom: 353 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	310	96.4	97.3	97.4	97.3	96.8	96.3	97.0
Vnom	353	96.1	97.1	97.2	97.1	96.7	96.3	96.8
Vmax	480	95.0	96.5	96.7	96.7	96.4	96.0	96.5

CEC Efficiency = 97.0%



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	49.6	316.42	96.365	49.6	316.41	96.365	49.5	316.41	96.363	49.5	316.44	96.364	49.6	316.43	96.377
20%	Vmin	109	315.89	97.286	109	315.94	97.288	109	315.97	97.282	109	316.04	97.283	109	316.12	97.282
30%	Vmin	162	315.46	97.370	162	315.46	97.373	162	315.46	97.370	162	315.45	97.370	162	315.45	97.370
50%	Vmin	226	311.83	97.274	227	311.9	97.275	226	311.94	97.271	226	311.99	97.270	226	312.05	97.274
75%	Vmin	350	315.84	96.829	351	316.01	96.830	351	316.15	96.828	351	316.24	96.829	351	316.3	96.826
100%	Vmin	480	316.68	96.348	480	316.7	96.352	480	316.7	96.354	480	316.7	96.352	479	316.71	96.350
10%	Vnom	49.4	353.54	96.068	49.4	353.54	96.078	49.8	353.53	96.092	49.8	353.54	96.097	49.8	353.55	96.090
20%	Vnom	109	353.47	97.113	109	353.49	97.112	109	353.45	97.113	109	353.41	97.114	109	353.41	97.119
30%	Vnom	161	353.63	97.205	161	353.63	97.211	162	353.67	97.216	162	353.7	97.218	162	353.82	97.217
50%	Vnom	225	353.87	97.118	226	353.93	97.124	226	353.9	97.125	226	354.04	97.130	226	354.11	97.130
75%	Vnom	351	354.04	96.738	351	354.09	96.742	351	354.09	96.740	351	354.15	96.740	351	354.27	96.740
100%	Vnom	478	353.85	96.264	478	353.88	96.269	478	353.89	96.266	478	353.9	96.269	478	353.92	96.272
10%	Vmax	49.9	495.74	95.004	50	495.73	95.010	49.9	495.73	95.010	49.9	495.73	95.013	49.8	495.73	95.010
20%	Vmax	109	480.18	96.527	109	480.15	96.531	109	480.14	96.530	109	480.16	96.531	109	480.16	96.539
30%	Vmax	162	480.65	96.745	162	480.66	96.749	162	480.72	96.746	162	480.77	96.746	162	480.84	96.748
50%	Vmax	226	480.86	96.711	226	480.89	96.709	226	480.79	96.722	226	480.82	96.721	226	480.88	96.718
75%	Vmax	353	479.88	96.433	353	479.84	96.436	353	479.84	96.435	353	479.83	96.433	353	479.78	96.429
100%	Vmax	476	479.98	95.944	479	479.96	95.965	479	479.92	95.967	480	479.88	95.971	479	479.83	95.962

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	49.6	316.42	96.367	49.6	316.42	96.364	49.6	316.41	96.354	49.6	316.42	96.352	49.6	316.41	96.353
20%	Vmin	109	316.07	97.281	109	316.04	97.284	109	316.03	97.281	109	315.97	97.285	109	315.95	97.285
30%	Vmin	162	315.45	97.374	162	315.43	97.372	162	315.43	97.375	162	315.43	97.371	162	315.41	97.373
50%	Vmin	226	312.09	97.273	226	312.03	97.269	226	311.86	97.272	226	311.79	97.270	226	311.75	97.268
75%	Vmin	350	316.09	96.825	350	315.97	96.827	350	315.92	96.827	350	315.9	96.825	350	315.82	96.829
100%	Vmin	478	316.66	96.346	479	316.67	96.346	479	316.7	96.348	479	316.7	96.349	479	316.69	96.348
10%	Vnom	49.8	353.54	96.086	49.8	353.54	96.080	49.8	353.54	96.081	49.8	353.53	96.086	49.7	353.53	96.092
20%	Vnom	109	353.38	97.120	109	353.35	97.122	109	353.31	97.123	109	353.3	97.125	109	353.28	97.125
30%	Vnom	162	353.84	97.210	162	353.98	97.215	162	354.04	97.214	161	353.97	97.209	162	353.75	97.217
50%	Vnom	226	354.17	97.129	226	354.11	97.131	226	353.98	97.131	226	353.91	97.134	226	353.98	97.140
75%	Vnom	351	354.37	96.739	351	354.44	96.743	350	354.38	96.745	351	354.24	96.747	351	354.18	96.748
100%	Vnom	478	353.92	96.267	478	353.93	96.269	478	353.91	96.268	478	353.92	96.266	478	353.91	96.270
10%	Vmax	49.8	495.75	95.015	49.8	495.75	95.018	49.8	495.74	95.016	49.8	495.73	95.020	49.8	495.73	95.025
20%	Vmax	109	480.16	96.537	108	480.18	96.533	109	480.12	96.544	109	480.1	96.545	109	480.13	96.547
30%	Vmax	162	480.9	96.743	162	480.91	96.749	162	480.94	96.751	162	481.02	96.744	162	480.95	96.746
50%	Vmax	227	480.84	96.723	227	480.86	96.723	227	480.85	96.724	227	480.82	96.726	227	480.81	96.726
75%	Vmax	352	479.8	96.427	353	479.79	96.431	353	479.79	96.432	352	479.81	96.423	352	479.89	96.425
100%	Vmax	479	479.84	95.965	479	479.82	95.967	479	479.8	95.967	479	479.78	95.963	479	479.77	95.962