Manufacturer: Advanced Energy Industries Inc

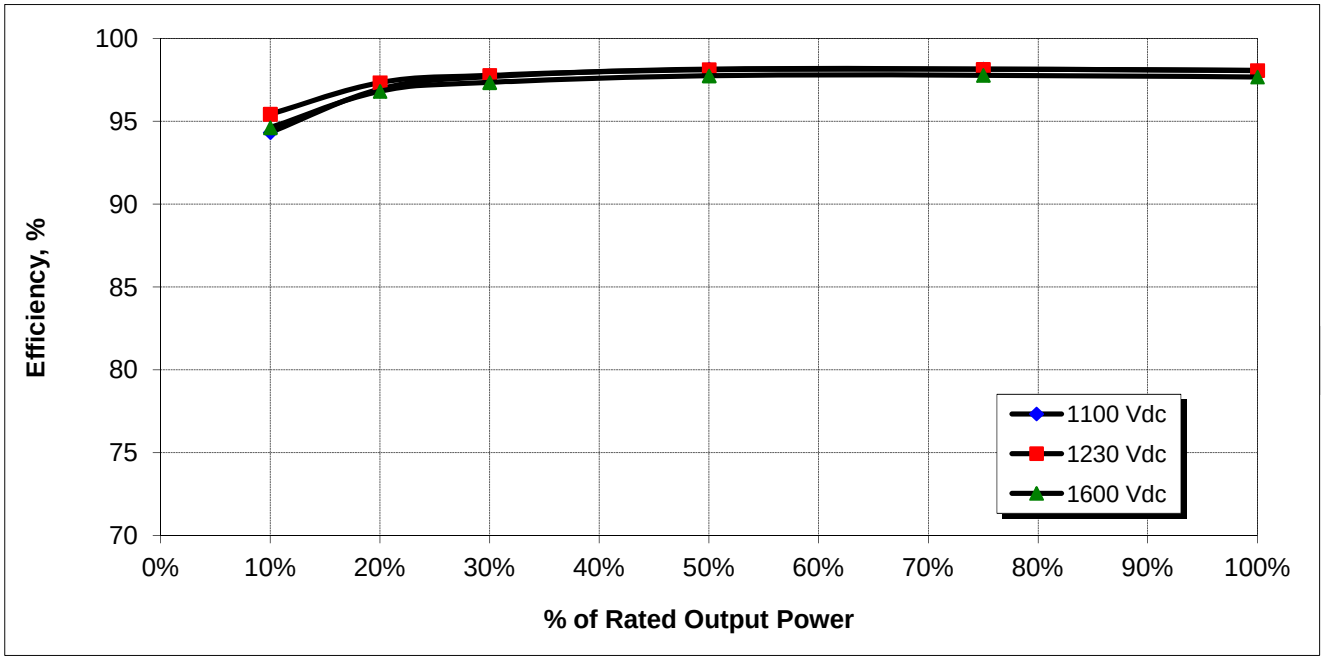
Model #: AE 1000NX

Rated Maximum Continuous Output Power: 1000.00 kW Night Tare Loss: 192.80 W

Vmin: 1100 Vdc Vnom: 1230 Vdc Vmax: 1600 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	1100	94.3	96.9	97.7	98.1	98.1	98.1	97.9
Vnom	1230	95.4	97.3	97.8	98.1	98.1	98.1	97.9
Vmax	1600	94.6	96.8	97.3	97.7	97.8	97.7	97.5

CEC Efficiency = 98.0%



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	100	1100	94.321	100	1100	94.289	99.9	1100	94.309	99.8	1100	94.282	99.8	1100	94.326
20%	Vmin	220	1100	96.917	220	1100	96.903	220	1100	96.916	220	1100	96.963	220	1100	96.970
30%	Vmin	325	1100	97.698	324	1100	97.634	324	1100	97.630	325	1100	97.649	325	1100	97.703
50%	Vmin	548	1100	98.118	548	1100	98.128	549	1100	98.137	549	1100	98.156	549	1100	98.152
75%	Vmin	702	1100	98.123	702	1100	98.137	701	1100	98.096	702	1100	98.142	702	1100	98.137
100%	Vmin	950	1100	98.047	950	1100	98.052	950	1100	98.037	950	1100	98.052	950	1100	98.070
10%	Vnom	99.6	1230	95.409	99.6	1230	95.403	99.6	1230	95.414	99.6	1230	95.416	99.6	1230	95.419
20%	Vnom	220	1230	97.317	220	1230	97.323	220	1230	97.319	220	1230	97.322	220	1230	97.322
30%	Vnom	325	1230	97.763	325	1230	97.765	325	1230	97.764	325	1230	97.762	325	1230	97.763
50%	Vnom	549	1230	98.101	549	1230	98.096	549	1230	98.095	549	1230	98.108	549	1230	98.104
75%	Vnom	707	1230	98.130	707	1230	98.134	707	1230	98.119	707	1230	98.117	707	1230	98.122
100%	Vnom	951	1230	98.056	951	1230	98.042	951	1230	98.043	951	1230	98.045	951	1230	98.061
10%	Vmax	99.6	1600	94.602	99.6	1600	94.601	99.6	1600	94.603	99.6	1600	94.604	99.6	1600	94.605
20%	Vmax	219	1600	96.794	219	1600	96.792	219	1600	96.793	219	1600	96.797	219	1600	96.795
30%	Vmax	324	1600	97.337	324	1600	97.324	324	1600	97.331	324	1600	97.328	324	1600	97.337
50%	Vmax	549	1600	97.729	549	1600	97.726	549	1600	97.729	549	1600	97.734	549	1600	97.735
75%	Vmax	701	1600	97.758	701	1600	97.754	701	1600	97.754	701	1600	97.759	701	1600	97.765
100%	Vmax	950	1600	97.669	950	1600	97.664	950	1600	97.657	950	1600	97.655	950	1600	97.652

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	99.8	1100	94.303	99.9	1100	94.368	99.8	1100	94.275						
20%	Vmin	220	1100	96.960	220	1100	96.913	220	1100	96.886						
30%	Vmin	325	1100	97.727	325	1100	97.724	325	1100	97.672						
50%	Vmin	549	1100	98.152	549	1100	98.134	548	1100	98.125						
75%	Vmin	702	1100	98.157	702	1100	98.153	702	1100	98.116						
100%	Vmin	950	1100	98.069	950	1100	98.040	950	1100	98.040						
10%	Vnom	99.6	1230	95.420	99.6	1230	95.418	99.6	1230	95.416						
20%	Vnom	220	1230	97.317	220	1230	97.318	220	1230	97.324						
30%	Vnom	325	1230	97.761	325	1230	97.758	325	1230	97.757						
50%	Vnom	549	1230	98.110	549	1230	98.105	549	1230	98.103						
75%	Vnom	707	1230	98.124	707	1230	98.135	707	1230	98.137						
100%	Vnom	951	1230	98.065	951	1230	98.060	951	1230	98.061						
10%	Vmax	99.6	1600	94.613	99.6	1600	94.612	99.6	1600	94.620						
20%	Vmax	219	1600	96.799	219	1600	96.797	219	1600	96.802						
30%	Vmax	324	1600	97.332	324	1600	97.325	324	1600	97.326						
50%	Vmax	549	1600	97.736	549	1600	97.743	549	1600	97.741						
75%	Vmax	701	1600	97.760	701	1600	97.769	700	1600	97.767						
100%	Vmax	950	1600	97.661	950	1600	97.662	950	1600	97.665						