Manufacturer: Advanced Energy Industries Inc

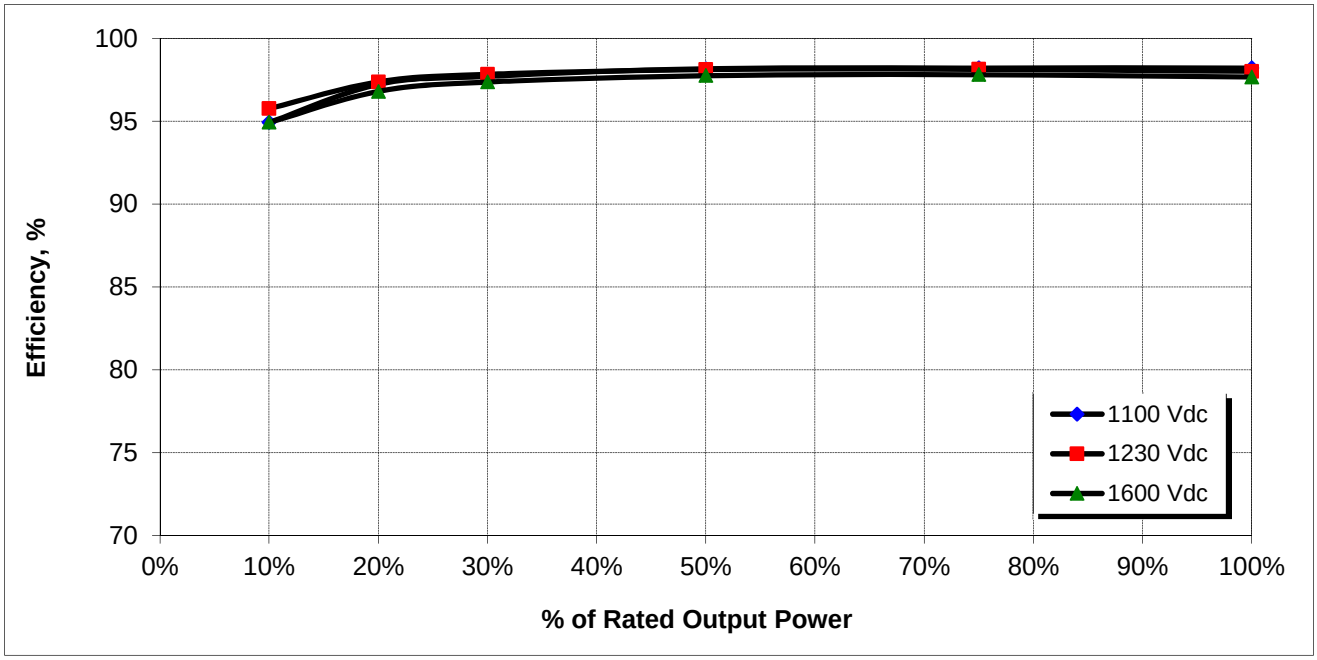
Model #: AE 1100NX

Rated Maximum Continuous Output Power: 1100.00 kW Night Tare Loss: -230.66 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		110.00	220.00	330.00	550.00	825.00	1100.00	Wtd
Vmin	1100	94.9	97.2	97.7	98.2	98.2	98.2	98.0
Vnom	1230	95.8	97.4	97.8	98.1	98.1	98.0	98.0
Vmax	1600	94.9	96.8	97.4	97.7	97.8	97.7	97.6

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	101.11	1100	95.038	101.2	1100.1	94.992	101.1	1100	94.950	101.4	1100	94.786	101.4	1100.1	94.888
20%	Vmin	223.07	1101	97.226	223.1	1101	97.260	223.1	1101	97.211	223.1	1101	97.235	223	1101	97.192
30%	Vmin	336.6	1100.1	97.699	336.6	1100.1	97.690	336.7	1100.1	97.730	336.6	1100.1	97.695	336.6	1100.1	97.702
50%	Vmin	510.47	1100	98.183	510.4	1100.1	98.165	510.4	1100.1	98.164	510.4	1100	98.165	510.3	1100	98.155
75%	Vmin	782.19	1100.4	98.210	782.2	1100.4	98.210	782.2	1100.4	98.215	782.2	1100.4	98.215	782.3	1100.4	98.219
100%	Vmin	1052	1143	98.218	1052	1143.1	98.209	1052	1143.1	98.210	1052	1143.1	98.208	1052	1143.1	98.207
10%	Vnom	102.49	1233.9	95.771	102.5	1233.9	95.746	102.5	1233.9	95.766	102.5	1234	95.753	102.5	1233.9	95.778
20%	Vnom	223.14	1232.7	97.374	223.1	1232.8	97.378	223.1	1232.7	97.376	223.1	1232.7	97.366	223.1	1232.7	97.373
30%	Vnom	336.71	1232.8	97.836	336.7	1232.8	97.839	336.7	1232.8	97.818	336.7	1232.8	97.829	336.7	1232.9	97.827
50%	Vnom	510.02	1230.7	98.108	510	1230.8	98.108	510	1230.8	98.120	510	1230.8	98.114	510.1	1230.8	98.115
75%	Vnom	781.96	1230.5	98.130	782	1230.5	98.133	781.9	1230.5	98.135	782	1230.5	98.135	782	1230.5	98.129
100%	Vnom	1053.5	1230.1	98.011	1053	1230.1	98.003	1054	1230.1	98.005	1054	1230.1	98.011	1054	1230.1	98.009
10%	Vmax	104.29	1600.1	94.930	104.3	1600.1	94.924	104.3	1600.1	94.923	104.3	1600.1	94.927	104.3	1600.1	94.927
20%	Vmax	226.33	1603.7	96.799	226.3	1603.7	96.797	226.3	1603.7	96.797	226.3	1603.8	96.792	226.3	1603.7	96.794
30%	Vmax	340.95	1599.9	97.351	340.9	1599.9	97.368	340.9	1599.9	97.368	340.9	1599.9	97.354	341	1599.9	97.369
50%	Vmax	505.61	1600.8	97.740	505.6	1600.7	97.739	505.7	1600.7	97.750	505.6	1600.7	97.744	505.6	1600.7	97.746
75%	Vmax	773.88	1601.4	97.808	773.9	1601.4	97.807	773.9	1601.4	97.804	773.9	1601.3	97.811	773.9	1601.3	97.808
100%	Vmax	1050.9	1601.7	97.660	1051	1601.8	97.663	1051	1601.8	97.661	1051	1601.8	97.662	1051	1601.7	97.648

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															