Manufacturer: Advanced Energy Industries, Inc (s/n 712490)

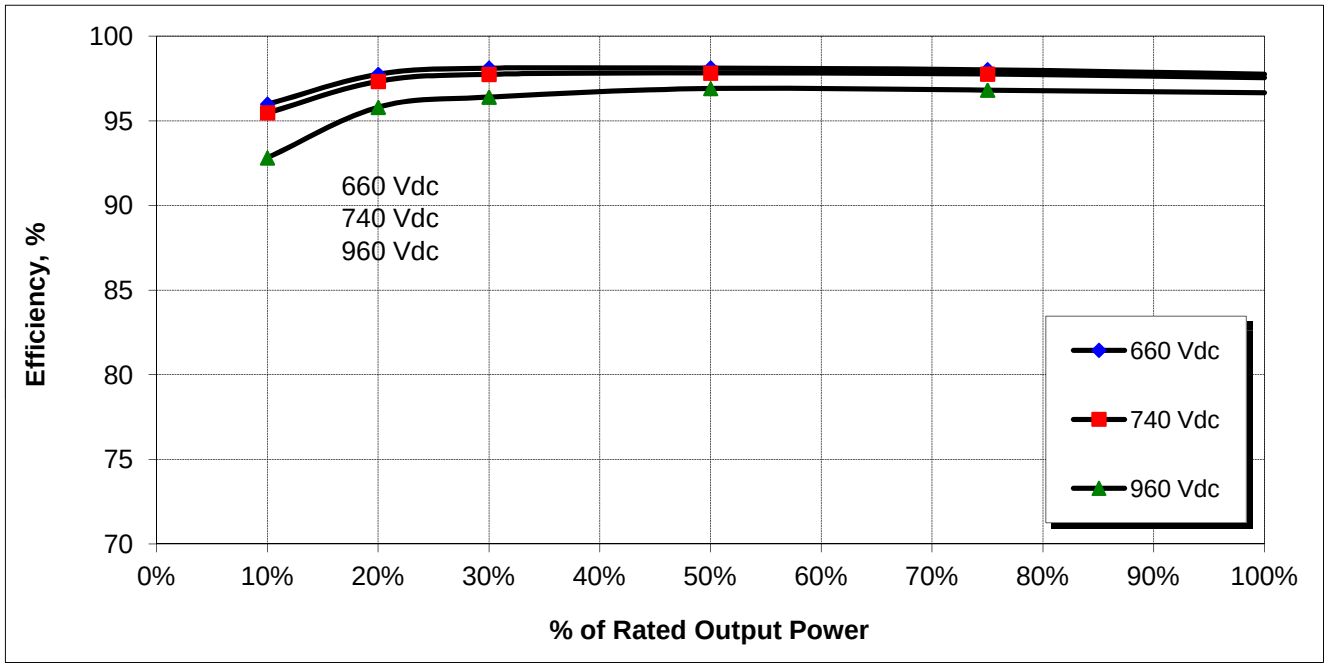
Model #: AE 250NX; 3159200-0002

Rated Maximum Continuous Output Power: 250.00 kW Night Tare Loss: 60.00 W

Vmin: 660 Vdc Vnom: 740 Vdc Vmax: 960 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	660	96.0	97.7	98.1	98.1	98.0	97.7	97.9
Vnom	740	95.5	97.3	97.7	97.8	97.8	97.5	97.6
Vmax	960	92.8	95.8	96.4	96.9	96.8	96.7	96.6

CEC Efficiency = 97.5%



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	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	24086.67	665.97	96.01	24090.00	666.00	95.94	24090.00	665.93	95.94	24086.67	665.93	96.02	24096.67	665.93	95.97
20%	Vmin	53370.00	666.10	97.72	53356.67	666.10	97.74	53353.33	666.10	97.73	53326.67	666.20	97.74	53320.00	666.17	97.75
30%	Vmin	80656.67	666.00	98.09	80650.00	666.00	98.09	80663.33	666.00	98.12	80656.67	666.00	98.11	80643.33	666.00	98.09
50%	Vmin	136256.67	666.00	98.10	136296.67	665.93	98.13	136276.67	666.00	98.11	136263.33	665.97	98.10	136300.00	665.97	98.12
75%	Vmin	187480.00	666.00	98.02	187466.67	666.00	98.02	187473.33	666.00	98.01	187466.67	666.00	98.02	187463.33	666.00	98.02
100%	Vmin	238720.00	667.00	97.75	238723.33	667.00	97.75	238673.33	667.00	97.74	238706.67	667.00	97.75	238730.00	667.00	97.76
10%	Vnom	24250.00	737.33	95.51	24230.00	737.33	95.43	24226.67	737.33	95.42	24253.33	737.33	95.50	24246.67	737.33	95.48
20%	Vnom	53443.33	737.30	97.34	53406.67	737.30	97.29	53446.67	737.30	97.35	53453.33	737.30	97.34	53413.33	737.30	97.29
30%	Vnom	80563.33	737.33	97.77	80503.33	737.37	97.69	80530.00	737.30	97.73	80573.33	737.33	97.79	80530.00	737.30	97.72
50%	Vnom	135976.67	737.27	97.84	135886.67	737.30	97.78	135940.00	737.30	97.82	135996.67	737.30	97.86	135923.33	737.27	97.80
75%	Vnom	187013.33	737.30	97.77	187003.33	737.30	97.76	186973.33	737.30	97.75	187000.00	737.30	97.77	186986.67	737.30	97.76
100%	Vnom	238256.67	737.20	97.58	238136.67	737.17	97.53	238133.33	737.20	97.53	238226.67	737.20	97.57	238200.00	737.20	97.56
10%	Vmax	23930.00	942.60	92.83	23920.00	942.60	92.80	23920.00	942.60	92.80	23930.00	942.60	92.84	23910.00	942.60	92.76
20%	Vmax	53926.67	942.57	95.85	53886.67	942.60	95.77	53866.67	942.53	95.74	53903.33	942.57	95.83	53903.33	942.57	95.80
30%	Vmax	80706.67	942.53	96.43	80670.00	942.57	96.39	80656.67	942.53	96.37	80683.33	942.53	96.40	80676.67	942.53	96.40
50%	Vmax	136773.33	942.50	96.92	136690.00	942.50	96.87	136736.67	942.50	96.90	136780.00	942.50	96.93	136706.67	942.50	96.88
75%	Vmax	199296.67	942.40	96.82	199196.67	942.43	96.78	199183.33	942.40	96.78	199300.00	942.40	96.84	199260.00	942.40	96.81
100%	Vmax	238686.67	942.33	96.66	238656.67	942.37	96.65	238680.00	942.40	96.66	238680.00	942.33	96.67	238596.67	942.40	96.63

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	24083.33	665.97	95.95	24106.67	665.97	96.03									
20%	Vmin	53346.67	666.20	97.78	53333.33	666.23	97.78									
30%	Vmin	80683.33	666.00	98.13	80676.67	666.00	98.13									
50%	Vmin	136290.00	665.97	98.12	136270.00	665.93	98.11									
75%	Vmin	187506.67	666.03	98.03	187443.33	666.00	98.02									
100%	Vmin	238726.67	667.00	97.76	238686.67	667.00	97.74									
10%	Vnom	24236.67	737.37	95.40	24263.33	737.37	95.53									
20%	Vnom	53436.67	737.30	97.33	53466.67	737.30	97.38									
30%	Vnom	80520.00	737.33	97.72	80566.67	737.30	97.78									
50%	Vnom	135930.00	737.30	97.80	136003.33	737.30	97.86									
75%	Vnom	186990.00	737.30	97.76	186983.33	737.30	97.76									
100%	Vnom	238140.00	737.20	97.53	238203.33	737.20	97.56									
10%	Vmax	23920.00	942.60	92.81	23933.33	942.60	92.87									
20%	Vmax	53880.00	942.60	95.76	53900.00	942.53	95.82									
30%	Vmax	80666.67	942.50	96.40	80673.33	942.57	96.40									
50%	Vmax	136726.67	942.50	96.89	136790.00	942.50	96.95									
75%	Vmax	199176.67	942.40	96.77	199263.33	942.40	96.83									
100%	Vmax	238653.33	942.40	96.66	238710.00	942.37	96.67									